

December 19, 1997
Ref. No.: EOS/ETS-1297-021

National Aeronautics and
Space Administration
Goddard Space Flight Center
Greenbelt, Maryland 20771

Attention: Mr. Willie Fuller
Code 513.0
Building 32, Room S212D

Subject: Contract No.: NAS5-31000
Subcontract No.: HQ001057
EOS SLA 9 (Work Element 3.2.3 in SLA)
EOSDIS Test System(ETS) Multimode Portable Simulator (MPS)
Delivery of the Release 1.4.0 Software and User's Guide

Dear Mr. Fuller:

The CNMOS contractor is pleased to deliver Release 1.4.0 of the ETS Multimode Portable Simulator (MPS) and an updated MPS User's Guide. MPS Release 1.4.0 resolves 20 Discrepancy Reports (DRs) and implements two ETS Change Requests (CRs), which were approved by the ETS Discrepancy Review Board. The list of the resolved DRs is included as Attachment E, and the two CRs are listed with requirement compliance changes in Attachment G. Several of the DRs resolved were associated with the ETS Operations Management Data Simulator (OMDSIM). An updated OMDSIM User's Guide will be delivered to you in mid-January.

MPS Release 1.4.0 has been tested with Project Data Base (PDB) 14, but MPS PDB 15 files have also been delivered. It is now a user start-up option to select the MPS PDB version to use. We are delivering for the first time an offline MPS utility that translates the Flight Operations Team (FOT) PDB into MPS readable PDB files. The utility may continue to undergo changes in future releases, but its availability will give users the opportunity to begin assuming the operations role of updating the MPS files with each new FOT PDB version rather than involving the MPS development team.

This delivery package contains 12 attachments as listed below. A completed Mission Systems Configuration Management (MSCM) form is included in Attachment II. If you have any questions concerning this delivery, please call me at 301-794-1548.

Sincerely yours

Rajendra Shah
CNMOS EOS Project Manager

EOSDIS Test System(ETS) Multimode Portable Simulator (MPS)
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Page Two

Delivery Package Reviewed by:

Walter Hall
CNMOS EOS Product Assurance Officer

The following attachments contain the details of the MPS software.

- Attachment A - describes the delivery contents for this release
- Attachment B - describes the operational changes
- Attachment C - contains the instructions to build and install the software
- Attachment D - contains any special operating instructions
- Attachment E - contains a list of the resolved DRs
- Attachment F - contains a list of the unresolved DRs
- Attachment G - contains the matrix of requirements addressed by this release
- Attachment H - contains the known system limitations
- Attachment I - contains the release history summary matrix
- Attachment J - contains a listing of the delivery media contents
- Attachment K - contains documentation references
- Attachment L - contains the Mission Systems Configuration Management (MSCM) form

Distribution: (* - Letter Only)

<u>NASA</u>	<u>ATSC</u>	<u>Lockheed Martin</u>	<u>CSC</u>
Ondrus, P. *	Bradbury, T. *	Cordier, G	Abshire, G*
Johns, A. *			Crowley, A*
Kelly, A.			Hall, W.
Smith, J.*			Helton, K. (CM)
ESDIS Library			Karamchetty, N.
			McGarry, J.
			Noone, E.
			Shah, R.
			Sharma, K.*
			Zavaleta, H
			Task File

Attachment A - Description of Delivery Contents

The Multimode Portable Simulator Release 1.4.0 consists of custom software and is being delivered via one 4 mm magnetic tape and seven 3.5" IBM PC compatible diskettes. Two copies of the media are being delivered.

A soft copy of the MPS Release 1.4.0 delivery package attachments is being delivered. The attachments have been formatted on a 3.5" IBM PC diskette utilizing the MS WORD version 6.0 word processing tool.

Three copies of the MPS User's Guide document are also being delivered. The updated user's guide will also be accessible through the Internet from the ETS homepage.

Attachment B - Release 1.4.0 Operational Changes

1) Eleven new user commands have been added:

- “u_rserror1_on” sets the Reed Solomon error control flag (item 17) to 1 in the EDOS Service Header for EDUs transmitted on channel 1 .
- “u_rserror2_on” sets the Reed Solomon error control flag to 1 in the EDOS Service Header for EDUs transmitted on channel 2 .
- “u_rserror1_off” sets the Reed Solomon error control flag to 0 in the EDOS Service Header for EDUs transmitted on channel 1 .
- “u_rserror2_off” sets the Reed Solomon error control flag to 0 in the EDOS Service Header for EDUs transmitted on channel 2 .
- “u_rate1_1k” sets the data rate on channel 1 to 1000 bps when in EDOS sim mode.
- “u_rate1_16k” sets the data rate on channel 1 to 16000 bps when in EDOS sim mode.
- “u_rate1_32k” sets the data rate on channel 1 to 32000 bps when in EDOS sim mode.
- “u_rate2_1k” sets the data rate on channel 2 to 1000 bps when in EDOS sim mode.
- “u_rate2_16k” sets the data rate on channel 2 to 16000 bps when in EDOS sim mode.
- “u_rate2_32k” sets the data rate on channel 2 to 32000 bps when in EDOS sim mode.
- “u_set1750” allows setting of 1750A data points in the telemetry stream. This command requires two arguments; mnemonic and value. Its format is shown via the following example:

u_set1750, FS1_SS_SUN_POSX, 1.7e-12

Leading whitespace is allowed but trailing whitespace is not (e.g., the commas must immediately follow “u_set1750” and the mnemonic) and the data value must be of the format

[sign] [ddd][.][ddd] [e | E [sign] ddd]

The whitespace shown in this format description is for clarity and is not allowed. “d” represents any decimal integer. Note that numbers in the format “123.456” are acceptable.

RESTRICTION: Use of the Telemetry Packet Configuration window to set 1750A parameters will have indeterminate results.

- 2) The Monitor Parameter window is used to monitor the value of 1750A parameters. The value is written to the main GUI log screen rather than to the display window because of the floating point format.
- 3) The transfer of Rate Buffered files via the file transfer protocol (FTP) can now occur when the MPS is running.
- 4) There is now a network status display to show the network IP address and UDP port assignments on the MPS.
- 5) The commands CDH_SET_CT1_CLKDELTN, CDH_SET_CT1_CLKDELTP, CDH_SET_CT2_CLKDELTN, and CDH_SET_CT2_CLKDELTP, which adjust the spacecraft clock, are currently not being recognized correctly by the MPS. They are being recognized as CDH_DUMP_CT1GATHER or CDH_DUMP_CT2GATHER.
- 6) OMDSIM no longer requires any workarounds concerning FTP of the SCS file. An SCS file is created when CODA transmission stops. The user can then manually FTP the file. Procedures for performing the FTP have been documented in the OMDSIM User's Guide. Note, the Summary Delay field on the OMDSIM main window is no longer necessary or used. The SCS file is created immediately after CODA transmission has stopped.
- 7) The "Cmd Data Blocks Received", "Cmd Data Blocks Discarded", and "CDBs Transferred" fields on the OMDSIM CODA editor expect input in hex format. For example, the value "800" will appear in the CODA output as 800 not 320. All other fields on the OMDSIM CODA editor expect input in decimal format. For example, the value "800" will appear in the CODA output as 320.
- 8) Complete directions for invoking the PDB translator and the Modeling database generator are given in the appendices to the MPS User's Guide for Release 1.4.0. An abbreviated explanation follows.

The PDB translator must be run first. To invoke it enter the following commands:

```
cd [root]/DATABASE/ver_xxx  
./xpdb xxx
```

where xxx is the PDB version number.

To run the Modeling database generator, first create the input files as described in Appendix B of the User's Guide, placing them in the ver_xxx directory. Then invoke the modeling database generator by entering the following commands:

```
cd [root]/DATABASE/ver_xxx  
./xmdb
```

Attachment C -Release 1.4.0Build Instructions

C.1 MVME187 SW

- a) Put DAT delivery tape into 4mm tape drive located in VME chassis.
- b) At M177 console, copy compressed tar file to system disk:
`tar xfbv stape:0 100`
- c) FTP compressed tar file to MPS MVME187 (use si_t account).
- d) At M177 console, delete compressed tar file from system disk:
`dl MPS_1.4.0.tar.Z`
- e) Log onto the M187 under the si_t account.
- f) Uncompress the compressed tar file:
`uncompress MPS_1.4.0.tar`
- g) Extract the installation script from the tar file:
`tar xvf MPS_1.4.0.tar ./ets_install`
- h) Execute the installation script:
`ets_install MPS target_directory MPS_1.4.0.tar`
where *target_directory* is the directory where the installation will occur
- i) If these values are not given in the command line, the installation script allows you to specify them during execution.
- j) Answer the prompts from the ets_install script. The default answer is given in square brackets “[]”.
- k) Review the installation results file (ets_build.log) for errors.

C2. MVME177 SW

- a) Create the following source file directories on the PC:
`gt_dir, ds_dir, sm_dir, to_dir, inc, xt_dir, ty_dir, ad_dir, op_dir, mc_dir, di_dir, ti_dir,
sc_dir, ci_dir, ut_dir, mt_dir, network, in_dir, mo_dir, mdb_gen, pdb_gen`
- b) Copy all source files from 3.5" floppys (disk1, disk2 and disk3) to their corresponding directories on the PC. Make sure all the files (header, etc.) are copied from the floppies.
- c) Edit the CC.BAT file that is found in the C:\PDOS\BIN directory of the PC to point to the newly created “inc” directory.
- d) All source files must be compiled and linked. Each directory has its own compile batch file and link file as shown in the table below. The link operation creates an executable with a name like `link_yy.sy`, where yy is the two character task identifier. It must be renamed as xyy, as indicated in column four of the table. **Compile the contents of *ut_dir* first.**

Example: in the “gt_dir” directory, first compile all the source files by typing “comp_gt”. Next, link the files by typing “link link_gt”. An executable named “link_gt.sy” will be created. Rename it to “xgt”. **Do not rename the four executables in the network directory.**

The contents of mdb_gen are the offline Modeling Database Translator. The pdb_gen directory contains the offline Project Data Base (PDB) Translator.

directory	compile batch file	link file(s)	executable
ut_dir	comp_ut	(no link file)	
gt_dir	comp_gt	link_gt	xgt
ds_dir	comp_ds	link_ds	xds
sm_dir	comp_sm	link_sm	xsm
to_dir	comp_to	link_to	xto
xt_dir	comp_xt	link_xt	xxt
ty_dir	comp_ty	link_ty	xty
ad_dir	comp_ad	link_ad	xad
op_dir	comp_op	link_op	xop
mc_dir	comp_mc	link_mc	xmc
di_dir	comp_di	link_di	xdi
ti_dir	comp_ti	link_ti	xti
sc_dir	comp_sc	link_sc	xsc
ci_dir	comp_ci	link_ci	xcii
mt_dir	comp_mt	link_mt	xmt
in_dir	comp_in	link_in	xin
mo_dir	comp_mo	link_mo	xmo
network	comp_net	udpt1	udpt1.sy†
		udpt2	udpt2.sy†
		send	send.sy†
		momdsim	momdsim.sy†
pdb_gen	comp_pdb	link_pdb	xpdb
mdb_gen	comp_mdb	link_mdb	xmdb

- e) Create, on the VME, a directory structure like the following example, where [root] is the base directory. It may be a subdirectory itself. The “PDB14” and “PDB15” subdirectories replace the “DBACPT” subdirectory of previous releases. Each of these subdirectories must contain all of the files that were in “DBACPT”, with the exception that the *.pdb files are replaced by identically named files from the identified version of the PDB.

```
[root]      /ACPT
            /PDB14
            /PDB15
            /DATABASE   /ver_14
                           /ver_15
```

The “DATABASE” directory will contain the PDB Translator and the Modeling Database Translator. The “ver_14”, etc., subdirectories will contain the PDB source files and the modeling database source files. Explicit directions for setting up these directories are given below.

- f) All executable files must be renamed and brought over to the VME. Rename and copy ~~the~~sy files (created in each directory in step d) to the VME [root]/ACPT directory according to the “executable” column above (except xmdb and xpdb, which are treated differently according to directions given below.) **The four network files marked with “†” are copied without being renamed.**
- g) The remaining VME files are supplied on 3.5” floppy diskettes. The files on the diskettes are copied to the VME as per the following instructions.
- h) Diskette 4 has the following directory structure:

```

<root>          \BLD1_4      \ACPT
                           \PDB14
                           \DATABASE

```

The BLD1_4 directory contains the files RUN_MPS and CLEAR. Use FTP to copy these files to the [root] directory on the VME.

The BLD1_4\ACPT subdirectory contains copies of all the executables as well ~~as~~.bkp. Use FTP to copy the *ac.bkp* file to the [root]/ACPT directory of the VME. If ever the system is not built directly from the delivered source code, use FTP to copy the executables to the [root]/ACPT directory of the VME.

The BLD1_4\PDB14 subdirectory contains a ZIP file with several data files necessary for operation of the MPS. The PDB14.ZIP file contains the translated Version 14 PDB files and contig14.ac. Unzip PDB14.ZIP then use FTP to copy the files to the [root]/PDB14 directory of the VME.

- i) The fifth diskette contains a single ZIP file, PDB15.ZIP, in the root. This file contains the translated Version 15 PDB files and contig15.ac. Unzip PDB15.ZIP then use FTP to copy the files to the [root]/PDB15 directory of the VME.
- j) The following files are network configuration files. They contain the ip addresses and port numbers needed by the MPS. These should **b~~COPIED~~** from the existing operational system into the [root]/PDBxx directories of the VME, where xx is the PDB version number.

```

ip1.op
ip1.tst
ip1.sim
ip1.gui
ports.op
ports.tst
ports.sim
coda.ip
coda.prt

```

- k) Copy the xmdb and xpdb executable images created in step d to the DATABASE directory, renaming them from link_mdb.sy and link_pdb.sy, respectively.

- l) Before the database translators, xmdb and xpdb, can be run, their executable attribute bit must be set. The commands to do this are:

```
cd [root]/DATABASE  
sa xpdb,sy  
sa xmdb,sy
```

- m) Diskette 6 contains a single ZIP file, PDB14SRC.ZIP, which contains all of the Project Data Base (PDB) source files. Use PKUNZIP to explode this file onto the PC's hard drive. The following commands are suggested:

```
c:  
cd \[root]\DATABASE\ver_14  
\ZIP\PKUNZIP -e A:\PDB14SRC
```

- n) Next, use FTP to copy all of the files to the [root]/DATABASE/ver_14 directory of the VME. The filenames must be in lower case on the VME.
- o) Repeat steps l and m for the PDB15SRC.ZIP file contained on Diskette 7. Copy it into [root]/DATABASE/ver_15.
- p) After the copy operations are complete many of the files will need to have their file type attribute changed from "SY" to "AC". The commands to do this are:

```
10:  
cd [root]  
sa RUN_MPS,ac  
sa CLEAR,ac
```

```
cd ACPT  
sa ac.bkp,ac
```

```
cd ..\PDB14  
sa contig14.ac,ac  
cd ..\PDB15  
sa contig15.ac,ac
```

- q) When FTP is used to copy PDB files, the files may become non-contiguous on the disk. While non-contiguous files will work perfectly well, the time needed for MPS bootup can lengthen considerably. Enter the following at the VME177 console to make the PDB input files contiguous:

```
cd [root]\PDB14  
contig14.ac  
cd ..\PDB15  
contig15.ac
```

- r) The names of the PDB source files became truncated when the files were ported to the PC. Use the following table as a guide in renaming PDB source files in the DATABASE/ver_xx directories, where xxx is the PDB version number. Use the PDOS 'rn' command. Case is important.

cmd_parm.pdb	cmd_parm_xxx.PDB
cmd_fixd.pdb	cmd_fixdata_xxx.PDB
cmd_vard.pdb	cmd_vardata_xxx.PDB

cmd_veri.pdb	cmd_verify_xxx.PDB
tlm_parm.pdb	tlm_parm_xxx.PDB
tlm_dsta.pdb	tlm_dstate_xxx.PDB
tlm_ryli.pdb	tlm_rylim_xxx.PDB
tlm_poly.pdb	tlm_polyconv_xxx.PDB
tlm_calc.pdb	tlm_calcurve_xxx.PDB

C3. Execution Setup Procedures:

- a) Many environment variables point to files and directories. The following files and directories must exist:

```
# ETS
$ETS_RUN_ROOT/runtime/params (directory)
$ETS_RUN_ROOT/runtime/log (directory)
$ETS_RUN_ROOT/runtime/omd (directory)
$ETS_RUN_ROOT/runtime/scenario (directory)
$ETS_RUN_ROOT/runtime/help (directory)

# MPS
$ETS_PARAMS_DIR/mui_init.params
$ETS_PROC_LOG_DIR

# Menu Controller
$ETS_RUN_ROOT/mmc_sample_icon_file (icon file)
$ETS_RUN_ROOT/runtime/temp (directory)
$ETS_RUN_ROOT/mmc (executable)
$ETS_RUN_ROOT/mmc_kill_processes.ksh (script file)
$ETS_RUN_ROOT/mmc_lrs_omd_start.csh (script file)
$ETS_RUN_ROOT/mmc_lrs_omd_stop.csh (script file)
$ETS_RUN_ROOT/mmc_lrs_tpce_start.csh (script file)
$ETS_RUN_ROOT/mmc_lrs_tpce_stop.csh (script file)

# OMDSIM
$ETS_RUN_ROOT/om_scenario_manager (executable)
$ETS_RUN_ROOT/om_scheduler (executable)
$ETS_RUN_ROOT/om_transmission_task (executable)
$ETS_RUN_ROOT/om_receiver (executable)
$ETS_RUN_ROOT/om_rec_sub (executable)
$ETS_RUN_ROOT/omdsim (executable)

# Rate Buffer Utility
$ETS_RUN_ROOT/rate_buffer (directory)
$ETS_RUN_ROOT/rbu (executable)

# Command Archive
$ETS_RUN_ROOT/cmd_archive (directory)
$ETS_RUN_ROOT/cau (executable)
```

NOTE: Filenames are limited to 32 characters; this includes the extension. Paths to files are limited to 80 characters. Full file specifications (path/filename) are thus limited to 112 characters.

- b) Ensure the environment variables in ets_setup have been set (via the .login file).
- c) When installation is complete, add the following lines to your .login or .cshrc file in your home directory:

```
if (-e ~/etslogin) then  
source ~/etslogin  
else  
echo ~/etslogin does not exist!  
endif  
cd $ETS_RUN_ROOT
```

C4. PDOS System File Update:

For the record, the following line was added to the SYS\$STRT file:

```
fm 18000
```

Note: This only needed to be done once, and was done when the MPS Release 1.4.0 was turned over to the independent test group. This procedure will not need to be performed for any future builds. It was needed to permit an FTP session from within the MPS application.

Attachment D - Special Operating Instructions

There are no special operating instructions for the MPS Release 1.4.0. Standard operating procedures are included in the User's Guide for the ETS Multimode Portable Simulator, which has been updated for this release. It will be available through the ETS home page at <http://esdis.gsfc.nasa.gov/ets/etsdoc.html> by the end of December. The ETS OMDSIM User's Guide is also undergoing revision. It will be available from the same web location by mid-January.

Attachment E - Resolved Discrepancy Reports

Attachment E reflects the closed DRs that are delivered with this release. Also include is a detailed description of each DR. The DR can be access via the Internet at address <http://iree.gsfc.nasa.gov/dtts/> (directly) or from the ESDIS Integration and Test home page at <http://esdis.gsfc.nasa.gov/integ/integ.html>.

Summary of Closed Discrepancy Reports

Critical(1)	Urgent(2)	Routine(3)
0	11	9

Class: ETS - MPS Number of Record(s): 18

Status Definitions

N - New A - Assigned Analysis R - Assigned Resolution

D - Delivered V - Verified C - Closed

W - Withdrawn P - Postponed X - Duplicate

DDTS ID	DR #	Stat	Sev	Description	Related IDR
SMODr00061	ETS0010	C	2	No Rate Buffered Transmission Capability	
SMODr00064	ETS0013	C	3	S/C Time Not Updated By Command	
SMODr00107	ETS0056	C	3	CLCW Count Does Not Match VCDU Count	
SMODr00139	ETS0088	C	2	Incorrect Flag Bit Setting	
SMODr00170	ETS0116	C	3	Signal Files Not Supported	
SMODr00265	ETS0148	C	2	VCDU Counts Are Misinterpreted	ETS0338
SMODr00267	ETS0150	C	2	Cannot enter 0 for VCID value	ETS0340
SMODr00269	ETS0152	C	2	Incorrect log function display	ETS0342
SMODr00284	ETS0167	C	2	EDOS header incorrect	ETS0387
SMODr00357	ETS0189	C	3	Incorrect data indication	ETS0459
SMODr00446	ETS0269	C	3	MPS Modeling Online	
SMODr00447	ETS0270	C	2	OMDSIM - SCS Report	
SMODr00448	ETS0271	C	2	OMDSIM - CODAs	
SMODr00449	ETS0272	C	3	MPS Modeling Offline	
SMODr00450	ETS0273	C	2	Q channel reconfigured to wrong setting	ETS0496
SMODr00451	ETS0274	C	3	Playback flag is set incorrectly	ETS0505
SMODr00452	ETS0275	C	3	OMDSIM improper shutdown	ETS0506
SMODr00454	ETS0276	C	2	TLM Default Values Result in Inoperable EOC	
SMODr00496	ETS0286	C	3	Missing Bit Rate Field - EDOS Sim Mode GUIs	
SMODr00497	ETS0287	C	2	ESH Override for R/S Control Flag Does Not Work	

DR: ETS0010	Related NCR:	Submitted: 961119
Status: CLOSED	Class: ETS	Closed: 971218

Title: No Rate Buffered Transmission Capability

***** Problem (Added 961119 by hzavaleta) *****

The MPS does not provide the capability to transmit rate buffered files via KFTP to an external entity, either manually or automatically.

***** Analysis (Modified 971216 by ckolb) *****

Requirement documented in the compliance checklist as unsupported. Kerberos is currently waived for ETS; FTP will be used instead. RB and SCS files will be transmitted via FTP. Manual procedures have been documented for users to transfer created files via FTP.

***** Resolution (Modified 971217 by ckolb) *****

Kerberos waived for ETS; FTP will be used instead. RB and SCS files will be transmitted via FTP. Manual procedures have been documented for users to transfer created files via FTP.

DR: ETS0013	Related NCR:	Submitted: 961119
Status: CLOSED	Class: ETS	Closed: 971218

Title: S/C Time Not Updated By Command

***** Problem (Added 961119 by hzavaleta) *****

Sent command "CDH_SET_ST1_CLK" to MPS. The format was as follows: "eb90 0009001800C4 1000C0000000 ob08250701e8 0000000000fe 0000008EA3d6 555555555555" in hex. The result of this command should have been that S/C time updated in tlm to 0 days, 0 msec, & 0 usec. However, when this command was sent => the S/C time did not update in the tlm nor on the MPS main window. [Note: There are more cmds in pdb which set/adjust S/C time<= these were not attempted<= assumed these are not working also.]

***** Analysis (Modified 971216 by ckolb) *****

Modified the format of spacecraft time as kept by the ti task. Added various set/access functions for spacecraft time to ti task. Added functions to ci task to handle spacecraft commands that set/adjust spacecraft time. Modified set spacecraft time logic in ty task. Current limitation is that the following four commands are not recognized:
CDH_SET_CT1_CLKDELTN CDH_SET_CT1_CLKDELTP
CDH_SET_CT2_CLKDELTN CDH_SET_CT2_CLKDELTP

***** Resolution (Modified 971217 by ckolb) *****

Modified the format of spacecraft time as kept by the ti task. Added various set/access functions for spacecraft time to ti task. Added functions to ci task to handle spacecraft commands that set/adjust spacecraft time. Modified set spacecraft time logic in ty task. Current limitation is that the following four commands are not recognized:
CDH_SET_CT1_CLKDELTN

CDH_SET_CT1_CLKDELTP

CDH_SET_CT2_CLKDELTN

CDH_SET_CT2_CLKDELTP

DR: ETS0056	Related NCR:	Submitted: 961120
Status: CLOSED	Class: ETS	Closed: 971218

Title: CLCW Count Does Not Match VCDU Count

***** Problem (Added 961120 by hzavaleta) *****

TLM status window contains field titled "CLCW count" -> since H/K, Diag & H&S tlm all contain CLCW => the CLCW count should match the VCDU count when Diag., H&S, & H/K tlm are being transmitted in S/C Sim mode.

***** Analysis (Modified 971216 by hzavaleta) *****

The CLCW field has been eliminated from the TLM status window.

DR: ETS0088	Related NCR:	Submitted: 961127
Status: CLOSED	Class: ETS	Closed: 971218

Title: Incorrect Flag Bit Setting

***** Problem (Added 961127 by hzavaleta) *****

[OMDSIM} - edited Coda file - set flag bit in ground message header - saved file - exited OMDSIM (brought MDSIM down completely) - brought OMDSIM back up - retrieved saved Coda file-> flag bit was shown as being unset.

***** Resolution (Modified 971217 by ckolb) *****

Modified OMDSIM GUI. CODA editor now saves flag bit setting and defaults to the setting being set.

***** Analysis (Modified 971217 by ckolb) *****

Modified OMDSIM GUI - CODA editor now saves flag bit setting and defaults to the setting being set.

DR: ETS0116	Related NCR:	Submitted: 961219
Status: CLOSED	Class: ETS	Closed: 971218

Title: Signal Files Not Supported

***** Problem (Added 961219 by jmccarry) *****

MPS Release 1.0 does not transmit signal files along with RB and SCS file transfers.

***** Analysis (Modified 971216 by hzavaleta) *****

The ability to create and transmit signal files has been provided to users as a manual procedure as part of the FTP of simulated rate buffered data files and spacecraft contact session summary reports.

DR: ETS0148 **Related NCR: ETS0338** **Submitted: 970402**
Status: CLOSED Class: ETS Closed: 971218

Title: VCDU Counts Are Misinterpreted

***** Problem (Added 970402 by hzavaleta) *****

Several parameters in the CODA report display (for example - count of frame sync pattern errors, count of CADUs received, count of flywheel CADUs, count of out of sequence messages, count of VCDU sequence counter discontinuities) are incorrectly defined as signed integers 4 bytes. The correct format and size as defined in the ICD is unsigned integers 4 bytes. Attempts to enter the maximum value for some parameters are being incorrectly interpreted on the display.

***** Analysis (Modified 971217 by ckolb) *****

The values in the bit stream are correct, just interpreted incorrectly as "signed" when displayed in the GUI. Modified OMDSIM GUI to display values as unsigned.

DR: ETS0150 **Related NCR: ETS0340** **Submitted: 970402**
Status: CLOSED Class: ETS Closed: 971218

Title: Cannot enter 0 for VCID value

***** Problem (Added 970402 by hzavaleta) *****

Tried to enter a zero in the VCID field on the return link physical channel panel of the CODA report but received a message indicating the value was invalid. The valid range for the VCID is 0-8.

***** Analysis (Modified 971217 by ckolb) *****

The problem as stated is incorrect. The valid range for the VCID field in an RLPP is listed as 1-63 by the ICD. However, the ICD is probably wrong. The OMDSIM GUI was modified so that the valid range for a VCID in an RLPP is now 0-63.

DR: ETS0152 **Related NCR: ETS0342** **Submitted: 970402**
Status: CLOSED Class: ETS Closed: 971218

Title: Incorrect log function display

***** Problem (Added 970402 by hzavaleta) *****

The telemetry logging function is displaying messages with channel 3 (both) instead of reporting channel 1 and channel 2.

***** Analysis (Modified 971216 by hzavaleta) *****

The message corrected to indicate when telemetry is logged on both channels 1 and 2.

DR: ETS0167 Related NCR: ETS0387 Submitted: 970402

Status: CLOSED Class: ETS Closed: 971218

Title: EDOS header incorrect

***** Problem (Added 970402 by hzavaleta) *****

The source sequence counter discontinuity field (item 10, table 5.1.3.1, ICD) is not set in the EDOS service header after EDUs are dropped on both channels.

***** Analysis (Modified 971217 by ckolb) *****

The source sequence counter discontinuity field is now set in the EDOS Service Header of the first EDU after dropping EDUs as directed by a user.

DR: ETS0189 Related NCR: ETS0459 Submitted: 970605

Status: CLOSED Class: ETS Closed: 971218

Title: Incorrect data indication

***** Problem (Added 970605 by hzavaleta) *****

After completing the first playback transmission successfully, the user tried to initiate a second transmission but the playback data was not sent. Although, the data source indicator was set to HK file, the user had to reset the indicator to start another transmission. The user should not have to toggle the indicator for subsequent transmission

***** Analysis (Modified 971217 by ckolb) *****

Data source and filename are now read at the start of data transmission. No toggle is necessary to read in another HK file.

DR: ETS0269 Related NCR: Submitted: 970917

Status: CLOSED Class: ETS Closed: 971218

Title: MPS Modeling Online

***** Problem (Added 970917 by gmoore) *****

For modeling with a COS algorithm, the offset and amplitude were both set to 3 using raw data numbers. This should have caused the range of values to go between 0 and 6. Instead, the value ranges are between 0 and 5. This condition was repeated with the offset and amplitude both set to 4. The correct range is 0 - 7 not 0 - 8.

***** Analysis (Modified 971217 by ckolb) *****

Problem due to truncating rather than rounding when floating-point number converted to integer. Fix developed for xmo task.

DR: ETS0270	Related NCR:	Submitted: 970917
Status: CLOSED	Class: ETS	Closed: 971218

Title: OMDSIM - SCS Report

***** Problem (Added 970917 by gmoore) *****

The format and data in the SCS report does not match the EDOS/EGS ICD.

***** Analysis (Modified 971217 by ckolb) *****

Formatted as intended. Changes being made to the ICD. OMDSIM assumes certain fields never used.

DR: ETS0271	Related NCR:	Submitted: 970917
Status: CLOSED	Class: ETS	Closed: 971218

***** Problem (Added 970917 by gmoore) *****

The CODA format has 24 extra bytes of zeros between the EDOS ground message header and the content of the CODA report.

***** Analysis (Modified 971216 by hzavaleta) *****

Modified om_transmission_task to fix CODA format. Software now formats CODAs "as intended."

DR: ETS0272	Related NCR:	Submitted: 970917
Status: CLOSED	Class: ETS	Closed: 971218

Title: MPS Modeling Offline

***** Problem (Added 970917 by gmoore) *****

When an EXP algorithm in EU units is used, the system is very slow in converting the EU to raw data numbers. After about 10 minutes only 10 data points had been converted. This occurs when a positive number is used for the exponent coefficient. When a negative number is used for the exponent coefficient, the conversion is only slightly faster.

***** Analysis (Modified 971217 by ckolb) *****

The coefficient used in the test case was much larger than expected, which caused the result to become very large very quickly, thereby affecting performance. The MPS User's Guide was modified to state that c should be a small number -- on the order of 0.001 or smaller.

DR: ETS0273 Related NCR: ETS0496 Submitted: 970918
Status: CLOSED Class: ETS Closed: 971218

Title: Q channel reconfigured to wrong setting

***** Problem (Added 970918 by hzavaleta) *****

Upon completion of the HK playback data file transfer, the MPS reconfigured the Q channel data rate to 16K instead of defaulting to configured setting of 1K

***** Analysis (Modified 971217 by ckolb) *****

TLM output on the channel reverts back to the previous format configuration at the end of a HK playback file.

DR: ETS0274 Related NCR: ETS0505 Submitted: 970918
Status: CLOSED Class: ETS Closed: 971218

Title: Playback flag is set incorrectly

***** Problem (Added 970918 by hzavaleta) *****

The playback flag in the ESH is being set in the CLCW when real-time EDUs (16K housekeeping) are transmitted. This flag (510-ICD-EDOS/EGS, Table 5.1.3-1 EDOS Service Header Item 6) should be set to non-playback data

***** Analysis (Modified 971216 by hzavaleta) *****

The playback data flag is no longer set in the ESH of a CLCW.

DR: ETS0275 **Related NCR: ETS0506** **Submitted: 970918**
Status: CLOSED Class: ETS Closed: 971218

Title: OMDSIM improper shutdown

***** Problem (Added 970918 by hzavaleta) *****

OMDSIM does not shutdown properly when closing the comm link and appears to be in a loop.

***** Analysis (Modified 971217 by ckolb) *****

When CODA Report transmission stops, a SCS Summary Report is generated. At this point, the user should observe in the terminal window (from which the OMDSIM software was invoked) a message indicating the name of the SCS Summary Report and the directory where the SCS Summary Report is located. The user will then need to manually FTP the SCS Summary Report and create and send a Signal File as outlined in documented procedures.

DR: ETS0276 **Related NCR:** **Submitted: 970929**
Status: CLOSED Class: ETS Closed: 971218

Title: TLM Default Values Result in Inoperable EOC

***** Problem (Added 970929 by dwomack) *****

MPS Version 1.3.0 MPS in EDOS Simulation Mode: The MPS is generating telemetry data with default values that violate numerous red/yellow limit constraints. This telemetry is created using the "PDB" data source option and is transmitted to the EOC. The EOC is flooded (inundated) by telemetry with limit violations which results in an inoperable EOC. An ECS Command Language (ECL) Directive can not even be entered while 16 kbps H/K TLM from the MPS is being received at the EOC. There is a LIMITS OFF directive at the EOC but key EGS I&T tests need the LIMITS checking software active during telemetry transmissions. If the MPS could output telemetry with nominal (non-limit violating) values as a default, EGS I&T could successfully use MPS as a telemetry data source.

***** Analysis (Modified 971217 by ckolb) *****

Have provided users will initial values file that uses PDB yellow limit midpoints, which has decreased the number of limits violations experienced in the FOS to at least make it operable. Also plan as a future MPS improvement to add 1750A parameters to initial values and TLM setting routines, and then to add user-defined discreet to initial values file.

DR: ETS0286 **Related NCR:** **Submitted: 971030**
Status: CLOSED Class: ETS Closed: 971218

Title: Missing Bit Rate Field - EDOS Sim Mode GUIs

***** Problem (Modified 971118 by ckolb) *****

MPS Version 1.3.0 EDOS Simulation Mode There is no "Bit Rate" field on the EDOS simulation mode GUIs. In order to control the data transmission rate in EDOS simulation mode, you must go to S/C Sim Mode (Configure -> TLM; Telemetry Configuration – Spacecraft Sim Mode GUI) and make your rate specification. These rate setting instructions are known but not documented in the MPS user's guide. Refer to the latest available guide (MPS version 1.2.0 User's Guide).

***** Analysis (Modified 971216 by hzavaleta) *****

User commands have been added to set the data rates to 1K, 16K or 32K for each channel.

DR: ETS0287 Related NCR: Submitted: 971030

Status: CLOSED Class: ETS Closed: 971218

Title: ESH Override for R/S Control Flag Does Not Work

***** Problem (Added 971030 by dwomack) *****

MPS Version 1.3.0 EDOS Simulation Mode: In the "Telemetry Configuration - EDOS Sim Mode" dialog box ("EDOS Service Header Overrides"), the "R/S Control Flag" toggle button is activated. This selection is suppose to result in the setting of the Reed-Solomon Error Control flag (Field #17 of the ESH) to a 1, instead the Recovery Processing Indicator (Field #7 of the ESH) is set to a 1.

***** Analysis (Modified 971217 by ckolb) *****

The Telemetry Configuration dialog box allows the user to toggle the Recovery Processing Indicator field in the ESH (item 7). A user command has been provided to toggle the Reed-Solomon Error Control flag in the ESH (item 17).

Attachment F - Unresolved Discrepancy Reports (DR)

The remaining unresolved DRs from previous releases are described in the ESDIS Discrepancy Report Tracking Tool (DRTT). The DRs are listed by Number, Related IDR, System/Subsystem name, Status, Severity, and Description. The DR can be accessed via the Internet at address <http://iree.gsfc.nasa.gov/dtts/> (directly) or from the ESDIS Integration and Test home page at <http://esdis.gsfc.nasa.gov/integ/integ.html>. The following tables represent a summary of the open DRs, a full description of each DR follows the summary tables.

Summary of Open Discrepancy Reports

Critical(1)	Urgent(2)	Routine(3)
0	3	15

Class: ETS - MPS Number of Record(s): 18

Status Definitions

N - New A - Assigned Analysis R - Assigned Resolution

D - Delivered V - Verified C - Closed

W - Withdrawn P - Postponed X - Duplicate

DDTS ID	DR #	Stat	Sev	Description	Related NCR
SMODr00084	ETS0033	A	2	Undelivered Requirement	
SMODr00120	ETS0069	A	2	MPS rejected the command having an error	
SMODr00150	ETS0099	A	3	Coda Report only display 2 channels	
SMODr00151	ETS0100	A	3	Coda Reports only 8 VCIDs	
SMODr00155	ETS0104	A	3	Can not set time in NASCOM header	
SMODr00156	ETS0105	A	3	Block error control bit not set in NASCOM block	
SMODr00159	ETS0108	A	3	Coda Reports report wrong number of VCDU	
SMODr00283	ETS0166	A	3	Path directory truncated	ETS0385
SMODr00285	ETS0168	A	3	Starting telemetry is unsetting the GN mode	ETS0388
SMODr00286	ETS0169	A	3	Data isn't being transmitted on channel 2	ETS0389

SMOdr00577	ETS0288	A	2	OMDSIM CODA Editor	ETSdev0005
SMOdr00573	ETS0289	A	3	OMDSIM- Event Log	ETSdev0001
SMOdr00574	ETS0290	A	3	CODA Report	ETSdev0002
SMOdr00575	ETS0291	A	3	OMD Delog	ETSdev0003
SMOdr00576	ETS0292	A	3	OMD Delog	ETSdev0004
SMOdr00578	ETS0293	A	3	SCS Report	ETSdev0006
SMOdr00582	ETS0294	A	3	CODA Report	ETSdev0007
SMOdr00583	ETS0295	A	3	Telemetry Logging	ETSdev0008

DR: ETS0033

Related NCR:

Submitted: 961120

Status: ASSIGNED-ANALYSIS Class: ETS

Title: Undelivered Requirement

***** Problem (Added 961120 by hzavaleta) *****

Attempted to test using activity log as data source => MPS compliance matrix indicated that this requirement was not delivered due to lack of information from outside sources.

***** Resolution *****

Awaiting resolution.

DR: ETS0069

Related NCR:

Submitted: 961127

Status: ASSIGNED-ANALYSIS Class: ETS

Title: MPS rejected the command having an error

***** Problem (Added 961127 by hzavaleta) *****

Set expected header values as follows for commanding in GN mode => source=0, dest=1, dsid=2, & Mtyp=9. Using CTEST we sent [DBIB] command block to MPS=> 2nd block HDR= "01002A02" (hex) 3rd block HDR= "09000000" (hex). The MPS rejected the command for having an error in its command block header

***** Analysis *****

Analysis submitted 2/14/97; as directed by H. Zavaleta.

***** Resolution *****

Awaiting resolution.

DR: ETS0099

Related NCR:

Submitted: 961202

Status: ASSIGNED-ANALYSIS Class: ETS

Title: Coda Report only display 2 channels

***** Problem (Added 961202 by hzavaleta) *****

Generating input for a Coda Report - Return link physical channel ICD range 0 -> 24 - current display is 0 -> 2.

***** Analysis *****

Analysis submitted 2/14/97; as directed by H. Zavaleta.

***** Resolution *****

Awaiting resolution.

***** Admin Comments (Added 970317 by ckolb) *****

3/13/97

Awaiting CCR to be submitted for a requirements change.

DR: ETS00100 Related NCR: Submitted: 961202

Status: ASSIGNED-ANALYSIS Class: ETS

Title: Coda Reports only 8 VCIDs

***** Problem (Added 961202 by hzavaleta) *****

Coda Report generator input values for "number of VCIDs" = Range 0 to 8 - ICD 0 to 255.

***** Analysis *****

Analysis submitted 2/14/97; as directed by H. Zavaleta.

***** Resolution *****

Awaiting resolution.

***** Admin Comments (Added 970317 by ckolb) *****

3/13/97

Awaiting CCR to be submitted for a requirements change.

DR: ETS0104 Related NCR: Submitted: 961202

Status: ASSIGNED-ANALYSIS Class: ETS

Title: Can not set time in NASCOM header

***** Problem (Added 961202 by hzavaleta) *****

According to J.Alger-> GMT time in NASCOM block header can be set by operator [set UTC time] function of MPS.
=> We set the UTC time to yrs: 96, day: 1, hr: 1, & min: 1. We then began transmitting WGS formatted BLOCK

telemetry - we analyzed the tlm logged by RCVBCK SOC test tool => the transmitted time did not match the time we had set through the MPS interface.

***** Analysis *****

Analysis submitted 2/14/97; as directed by H. Zavaleta.

***** Resolution *****

Awaiting resolution.

DR: ETS0105 Related NCR: Submitted: 961202

Status: ASSIGNED-ANALYSIS Class: ETS

Title: Block error control bit not set in NASCOM block

***** Problem (Added 961202 by hzavaleta) *****

The NASCOM blocks transmitted from the MPS (WGS-mode) do not appear to contain the block error control bits at the end of the block.

***** Analysis *****

Analysis submitted 2/14/97; as directed by H. Zavaleta.

***** Resolution *****

Awaiting resolution.

DR: ETS0108 Related NCR: Submitted: 961205

Status: ASSIGNED-ANALYSIS Class: ETS

Title: Coda Reports report wrong number of VCDU

***** Problem (Added 961205 by hzavaleta) *****

Coda Report generation CCSDS VCDU processing number of VCIDs ICD value 0 - 255 range for this system 0 - 8.

***** Analysis *****

Analysis submitted 2/14/97; as directed by H. Zavaleta.

***** Resolution *****

Awaiting resolution.

***** Admin Comments (Added 970317 by ckolb) *****

3/13/97

Awaiting CCR to be submitted for a requirements change.

DR: ETS0166 Related NCR: ETS0385 Submitted: 970402

Status: ASSIGNED-ANALYSIS Class: ETS

Title: Path directory truncated

***** Problem (Added 970402 by hzavaleta) *****

The scenario file name window is not large enough to show complete path directory and file name and user cannot scroll in the window to see the file name.

***** Analysis *****

Awaiting analysis.

DR: ETS0168 Related NCR: ETS0388 Submitted: 970402

Status: ASSIGNED-ANALYSIS Class: ETS

Title: Starting telemetry is unsetting the GN mode

***** Problem (Added 970402 by hzavaleta) *****

Configured command for GN and started telemetry (both channels). Sent command and received message -> 'no sync in command.' Stop tlm on both channels and resent command -> received message 'no sync in command.' Reconfigured command for GN and resent command -> received message 'command AST_TURN_OFF_C_SD received.' Start telemetry on both channels and sent command -> received message 'no sync in command.' It appears that starting telemetry is unsetting the command configuration for the GN mode.

***** Analysis *****

Awaiting analysis.

DR: ETS0169 Related NCR: ETS0389 Submitted: 970402

Status: ASSIGNED-ANALYSIS Class: ETS

Title: Data isn't being transmitted on channel 2

***** Problem (Added 970402 by hzavaleta) *****

Intermittent problem (occurred twice) when starting telemetry on both channels but data isn't being transmitted on channel 2 -> received message to indicate telemetry had started on both channels. This problem occurred on 3/25 and 4/1. Workaround - stopped and restarted telemetry on channel 2. Attempted to reproduce problem by starting and stopping telemetry numerous times but was unsuccessful.

***** Analysis *****

Awaiting analysis.

DR: ETS0289 Related NCR: ETSdev0001 Submitted: 971210

Status: ASSIGNED-ANALYSIS Class: ETS Asgnd-Analysis: 971218

Title: OMDSIM- Event Log

***** Problem (Modified 971217 by ckolb) *****

Intermittently, the OMDSIM event log will cut off prematurely. The log will end right in the middle of an event message. For example, a particular message should say:

97 336 11:41:04 OM_TRANSMISSION_TASK: CODA Report Transmitted: 628 bytes.

Instead it says:

97 336 11:41:04 OM_TRANMISSION_TA

Also, the log should end with shutdown messages. It cuts off well before then.

DR: ETS0290 Related NCR: ETSdev0002 Submitted: 971210

Status: ASSIGNED-ANALYSIS Class: ETS Asgnd-Analysis: 971218

Title: CODA Report

***** Problem (Modified 971217 by ckolb) *****

Was able to enter 17 characters (abcdefabcdefabcde) in command data block field of FLPP section. Saved file, exited CODA editor, re-entered CODA editor, re-loaded CODA report, CDB field cut off first character.

DR: ETS0291 Related NCR: ETSdev0003 Submitted: 971210

Status: ASSIGNED-ANALYSIS Class: ETS Asgnd-Analysis: 971218

Title: OMD Delog

***** Problem (Modified 971217 by ckolb) *****

OMD delog asks whether or not to delog the SCS Report; however, there is no mention of the SCS in the OMD_delog file. Typically, the final "OMD_Seq No." entry is for the SCS report. Instead it is for a CODA.

DR: ETS0292 Related NCR: ETSdev0004 Submitted: 971210

Status: ASSIGNED-ANALYSIS Class: ETS Asgnd-Analysis: 971218

Title: OMD Delog

***** Problem (Modified 971217 by ckolb) *****

There are erroneous values in Forward Link Data Block. These are for Out of Sequence # and CDBs Transferred for all 6 FLPPs. It appears that these values are entered in the OMD_delog using signed integers.

DR: ETS0288 Related NCR: ETSdev0005 Submitted: 971210

Status: ASSIGNED-ANALYSIS Class: ETS Asgnd-Analysis: 971218

Title: OMDSIM CODA Editor

***** Problem (Modified 971217 by ckolb) *****

After the CODA report is edited and the exit option from the File menu is selected, the prompt asking if the file is to be saved comes up. When "yes" is chosen, OMDSIM shuts down entirely and the error message "Segmentation Fault for CODA" is given. This results in the CODA report not being saved. The only way around this is to click the save option in the File menu first, before exiting.

DR: ETS0293 Related NCR: ETSdev0006 Submitted: 971210

Status: ASSIGNED-ANALYSIS Class: ETS Asgnd-Analysis: 971218

Title: SCS Report

***** Problem (Modified 971217 by ckolb) *****

Fields 4-1.4, the initial time for frame sync lock; 4-1.6, the last time for frame sync lock; and 4-1.9, the last time for frame sync lock drop are all 0's. This refers to the date and time October 10, 1995, at midnight. Also, Field 7.1 should have all 0's, but instead has the following hex numbers in it: (2000 0000 1234 56b4).

DR: ETS0294 Related NCR: ETSdev0007 Submitted: 971211

Status: ASSIGNED-ANALYSIS Class: ETS Asgnd-Analysis: 971218

Title: CODA Report

***** Problem (Added 971211 by nkaramchetty) *****

In the OMDSIM transmission log, the CODA sequence starts at 1. It should start at 0.

DR: ETS0295

Related NCR: ETSdev0008

Submitted: 971211

Status: ASSIGNED-ANALYSIS

Class: ETS

Asgnd-Analysis: 971218

Title: Telemetry Logging

***** Problem (Modified 971217 by ckolb) *****

In the Control menu of the MPS GUI when the system is in EDOS Sim mode, both the "Log Telemetry" and "RB Files" options are enabled. In EDOS Sim mode, the right way to keep a log of the data is with RB files, so "Log Telemetry" should be disabled.

Attachment G - List of System Requirements

In MPS Release 1.4.0, the implementation of each level 4 requirement (i.e., full, partial, or non-implementation) remains the same as for MPS Release 1.3.0, except for the following changes as noted in italics in the table below.

Level 4 Req. Spec	Requirements Description	Compliance Full/Partial/None	Comment
V1-1.1.3.4-1	The ETS OMDSIM shall display a record of OMD transmission events, which include: c. Destination of OMD	F	<i>Change made in previous OMDSIM release.</i>
V1-1.1.3.4-2	The ETS OMDSIM shall display a record of OMD transmission events, which include: c. Source of OMD	F	<i>Change made in previous OMDSIM release.</i>
V2-32340-05	The MPS shall process commands that set or adjust the spacecraft clock and GMT.	P	<i>Four adjust spacecraft clock commands are not recognized correctly. Commands with variable descriptors currently are not handled by the MPS.</i>
V2-32410-08	The MPS shall be capable of simulating SCC spacecraft and instrument memory dumps. MPS shall build packets based on contents of the simulated SCC memory and according to memory dump formats specified by the EOS AM-1 Project.	F	<i>MPS memory dumps modified to be consistent with changes specified by CCR 505-01-41-159A. The ETS DRB approved CR-19971208-03 on 12/18/97.</i>
V2-32430-08	The MPS shall provide the capability to transmit rate buffered files via KFTP either at the end of a simulated contact or on request.	F	<i>Kerberos requirement has been dropped for the ESDIS Project. A manual MPS procedure has been documented that will enable a user to transmit a simulated rate buffered data file via FTP from within the MPS application.</i>
New	The MPS shall provide the capability of allowing users to select from multiple versions of the MPS PDB files for a testing session.	F	<i>The ETS DRB approved CR-19971208-01 on 12/18/97.</i>

Attachment H - System Limitations

H.1 MPS Release 1.4.0 Limitations

Some previous system limitations cited in earlier MPS releases have been removed due to the resolutions of DRs included in MPS Release 1.4.0. The following system limitations have been eliminated (DR numbers in parentheses):

- Procedures acceptable to users have been provided to transfer rate buffered data files and spacecraft contact session reports from within the MPS and OMDSIM applications via the file transfer protocol (SMOdr00061)
- Procedures acceptable to users have been provided to create and transmit signal files (SMOdr00170)
- Errors in SCS and CODA report formats have been corrected (SMOdr00447 and 448)

The current set of system limitations associated with the MPS is listed in H.1.

DR. No.	Rel	Sev	Problem Description	Possible Workaround
n/a	1.0	2	MPS uses valid EOS AM-1 APID numbers when telemetry format is selected. It does not generate and transmit up to 512 unique APIDs. (Internal CCB Waiver accepted on V2-32410-03.)	For any simulated data type, user can override APID number in outgoing packets by using Tlm Packet option in MPS Configure menu and setting byte offset and entering any APID number.
n/a	1.0	2	[S/C Sim Mode] MPS uses valid EOS AM-1 VCID numbers when telemetry format is selected. It does not generate and transmit up to 31 unique VCIDs. (Internal CCB Waiver accepted on V2-32440-07.)	For any simulated data type, user can override VCID number in outgoing CADUs by using Packet Format option in MPS Configure menu and selecting VCID Corrupt Header Field option to generate an invalid VCID.
SMOdr00150 SMOdr00151 SMOdr00159	1.0 1.0 1.0	3 3 3	[EDOS Sim Mode] MPS does not provide complete CODA generation capabilities as specified in the EDOS-EGS ICD (e.g., handling more than two return link channels, or maximum number of VCIDs), however, it should provide sufficient ranges for EOS AM-1 test support. (Internal CCB Waiver submitted on V2-34000-01.)	None. Later MPS releases could add enhancements to be applicable for other EOS spacecraft.
n/a	1.4.0	-	The commands CDH_SET_CT1_CLKDELTN, CDH_SET_CT1_CLKDELTP, CDH_SET_CT2_CLKDELTN, and CDH_SET_CT2_CLKDELTP, which adjust the spacecraft clock, are not recognized correctly by the MPS. They are recognized as CDH_DUMP_CT1GATHER or CDH_DUMP_CT2GATHER, which appear first in a list of commands. The MPS does not currently handle commands with variable command descriptors fields.	None. Later MPS releases could implement changes necessary to handle this set of commands, if required.

H.2 MPS DR Workarounds

The following table provides suggested workarounds for a subset of open MPS Discrepancy Reports (DRs). DRs not found in this table have no suggested workaround.

DR No.	Rel	Sev	Description Of Discrepancy	Suggested Workaround
SMOdr00084	1.0	2	Attempted to test using activity log as data source => MPS compliance matrix indicated that this requirement was not delivered due to lack of information from outside sources. [V2-32420-03]	Assign ASCII messages to activity log mnemonics via the telemetry parameter override option.

Attachment I - Release History Summary Matrix

Attached is the release history summary matrix which reflects the MPS Release 1.4.0 delivery.

Release History Summary Matrix									
SYSTEM:	MPS								
RELEASE NUMBER		1.0	1.1.0	1.2.0	1.2.1	1.3.0	1.4.0		
DELIVERY DATE		12/02/96	4/4/97	6/6/97	7/30/97	9/19/97	12/19/97		
CONFIGURATION ITEM	CI NO.								
MPS Workstation	1.1	1.0	n/a	n/a	n/a	n/a	n/a		
VME Platform	1.2	1.0	n/a	n/a	n/a	1.3.0	1.4.0		
MPS User Interface	1.3	1.0	1.1.0	1.2.0	n/a	1.3.0	1.4.0		
Spacecraft SIM	1.4	1.0	1.1.0	1.2.0	1.2.1	1.3.0	1.4.0		
OMDSIM	1.5	1.0	1.1.0	1.2.0	n/a	1.3.0	1.4.0		
Utilities	1.6	1.0	1.1.0	1.2.0	n/a	1.3.0	1.4.0		

Attachment J - Listing of Delivery Contents

MPS Release 1.4.0 MVME177 Source Software (Floppy Disk 1 of 7), 12/19/97

Volume in drive C has no label

Volume Serial Number is 266F-11E0

Directory of C:\NAR_TEST\MPS\MVME177

	<DIR>	12-18-97	8:29a
	<DIR>	12-18-97	8:29a
DISK1	<DIR>	12-18-97	8:30a
DISK2	<DIR>	12-18-97	8:30a
DISK3	<DIR>	12-18-97	8:30a
DISK4	<DIR>	12-18-97	8:30a
DISK5	<DIR>	12-18-97	8:30a
DISK6	<DIR>	12-18-97	8:30a
DISK7	<DIR>	12-18-97	8:30a
MVME177 TXT	0	12-18-97	8:49a

11 file(s) 28,959 bytes

Directory of C:\NAR_TEST\MPS\MVME177\DISK1

CI 1.4

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
DS_DIR	<DIR>	12-18-97	8:30a
GT_DIR	<DIR>	12-18-97	8:30a
INC	<DIR>	12-18-97	8:30a
SM_DIR	<DIR>	12-18-97	8:30a
TO_DIR	<DIR>	12-18-97	8:30a
TY_DIR	<DIR>	12-18-97	8:30a
XT_DIR	<DIR>	12-18-97	8:30a
DISK1 TXT	645	12-18-97	8:18a

10 file(s) 645 bytes

Directory of C:\NAR_TEST\MPS\MVME177\DISK1\DS_DIR

CI 1.4

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
DS_WRIT_C	2,156	03-14-97	9:28a
DS_MAIN_C	10,397	03-14-97	10:23a
DS_TOPKT_H	6,022	07-08-96	3:42p
DS_SMTBL_H	5,496	02-16-94	3:51p
MAIN_DS_H	1,727	02-17-94	9:25a
DS_STRPK_H	7,250	09-01-94	1:40p
DS_STR_H	13,711	10-18-94	10:46a
DS_INCS_H	793	10-13-95	9:01a
DS_SEG_H	6,825	01-15-96	10:29a
DS_SCI_H	337	02-08-95	9:10a
DS_DEF_H	4,724	01-15-96	4:25p
DS_INIT_H	10,623	01-02-96	2:34p
DS_H	1,050	12-30-96	4:45p
COMP_DS_BAT	34	11-26-96	5:29p
CF_BAT	34	10-08-96	4:40p

LINK_DS CMD	697	11-26-96	5:30p
18 file(s)	71,876 bytes		

Directory of C:\NAR_TEST\MPS\MVME177\DISK1\GT_DIR

CI 1.4

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
+GT_INS_C	2,628	11-17-94	6:36p
+GT_FMT_C	2,331	01-18-96	10:53a
+GT_TRAV_C	1,414	09-13-93	1:36p
+GT_EVENT_C	2,430	03-20-97	6:18p
GT_F7IND_C	1,458	01-05-94	11:13a
GT_GAPID_C	1,717	01-05-94	11:39a
GT_GNAME_C	1,447	01-05-94	11:46a
GT_SAPID_C	1,933	07-12-94	5:21p
GT_SNAME_C	1,797	07-12-94	5:21p
GT_UPD_C	1,569	11-02-94	6:34p
GT_SNVAL_C	3,020	11-15-95	2:19p
GT_SAVAL_C	2,715	11-15-95	6:09p
GT_ACT_C	1,440	12-30-94	12:30p
GT_Q_PKT_C	2,783	11-17-94	7:12p
GT_CREAT_C	4,836	07-18-96	2:08p
GT_ACSTC	3,821	07-18-96	2:09p
GT_ACSVL_C	1,824	11-17-94	5:59p
GT_ACSEN_C	1,668	11-17-94	6:03p
GT_ACSET_C	2,595	02-06-95	4:37p
PRTACS_C	2,066	12-07-94	3:26p
PRT_PKT_C	1,930	01-30-94	12:33p
GT_DPPKT_C	7,046	06-26-97	1:19p
GT_INTVL_C	1,738	08-25-94	12:54p
GT_SEND_C	2,695	03-31-95	8:41a
GT_INIT_C	1,669	05-13-97	10:08a
GT_MAIN_C	3,540	05-13-97	10:07a
GT_PIN_C	3,821	04-17-97	10:40a
GT_RESET_C	1,296	04-21-97	12:06p
GT_NODMP_C	2,250	04-17-97	1:29p
GT_INIT_H	1,829	11-15-93	1:19p
GT_STR_H	1,352	11-12-93	3:12p
GT_INCS_H	635	05-13-97	10:12a
GT_INVMH	765	12-10-93	5:05p
GT_ACS_H	1,095	11-17-94	6:06p
GT_BSTR_H	1,712	02-16-96	2:32p
GT_H	2,023	03-19-97	9:01a
GT_DEF_H	1,388	02-20-97	10:17a
CFBAT	34	04-22-96	10:25a
COMP_GT_BAT	189	04-17-97	9:43a
LINK_SC2_CMD	1,480	05-17-96	9:29a
LINK2_SC_CMD	1,480	05-17-96	9:30a
LINK_GT_CMD	854	04-17-97	9:44a

44 file(s)	86,313 bytes		
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Directory of C:\NAR_TEST\MPS\MVME177\DISK1\INC

CI 1.4

<DIR>	12-18-97	8:30a
-------	----------	-------

	<DIR>	12-18-97	8:30a
OPS_MIDS H	1,208	09-25-95	3:06p
SCDEF H	2,499	02-11-96	12:59p
CMD_MIDS H	4,720	10-13-94	12:50p
IOCONF H	2,096	02-08-93	12:55p
GLOBALS H	1,768	04-26-94	2:00p
DP_PKT H	1,317	08-09-94	4:52p
TLM_MIDS H	4,071	10-14-94	1:37p
MDL_MIDS H	3,549	02-06-95	3:32p
COMPILER H	1,214	10-27-93	3:14p
OPDEF H	4,447	03-24-95	3:32p
WRITE_TI H	766	03-19-94	2:34p
HSIO H	2,777	10-27-93	4:10p
PUB_TI H	2,395	09-23-97	9:36a
FUNC_MC H	775	06-26-96	8:37a
SCSTR H	3,881	04-02-96	8:51a
BASEPSS H	623	09-10-93	2:16p
PTRTB_MT H	746	02-10-97	8:12a
PDBOLD H	14,933	10-13-94	11:41a
PUB_OP H	1,401	04-06-95	12:33p
PSSDEF H	2,724	10-09-97	9:12a
PUB_MT H	2,668	11-17-97	10:38a
INIT_TO H	2,825	12-07-93	2:46p
GADDR_TO H	737	04-14-94	2:26p
PUB_TO H	1,791	10-03-96	2:54p
MPS H	14,445	08-22-97	1:49p
MAIN_TO H	1,715	12-07-93	11:44a
OPSTR H	8,155	01-24-94	12:39p
QGLS_OP H	3,677	01-24-94	12:34p
QOPT_OP H	2,135	01-24-94	12:33p
TBREG_SM H	1,179	08-02-94	5:33p
PUB_MO H	1,562	10-22-96	10:58a
PUB_AE H	709	09-02-94	5:42p
PUB_AC H	999	03-02-95	9:30a
OP_TASK H	1,072	02-21-93	7:01p
PUB_DS H	2,526	12-30-96	3:42p
GLO_DEF H	1,401	04-06-95	1:56p
PUB_AM H	973	03-27-95	3:59p
PUB_PB H	790	04-21-94	2:04p
PUB_AD H	802	03-30-95	1:56p
SP_TIDS H	11,810	10-15-95	12:49p
AP_TIDS H	8,172	11-08-95	4:03p
PUB_ME H	1,027	01-31-95	12:56p
PUB_SC H	1,087	05-08-97	10:21a
MODELSTR H	6,899	10-09-97	5:09p
DS_TOPKT H	5,985	04-25-94	3:07p
SIDS H	19,262	10-12-95	2:40p
MPSPKT H	1,931	06-13-96	1:11p
TO_DEF H	3,951	08-29-96	2:18p
HSIO2 H	2,180	02-20-96	3:04p
SM_PKT H	22,637	10-11-95	5:30p
EDU H	2,214	06-29-96	11:56a
EDGM H	4,931	07-24-96	6:15a
ETS H	2,685	12-05-96	2:58p

FQ2 H	3,942	06-18-96	2:33p
PUB_CI H	2,307	05-12-97	10:47a
PDB H	16,272	11-19-97	4:45p
PUB_GT H	2,190	04-17-97	9:36a
TO_PKT H	4,851	02-20-97	10:47a
PUB_DI H	1,631	06-17-97	11:16a
PUB_SM H	2,320	06-04-97	4:48p
PUB_IN H	789	06-03-97	9:38a
PUB_MC H	1,771	06-06-97	12:31p
PUB_XT H	7,658	11-06-97	3:14p
PDBNOV H	15,322	10-09-97	3:45p
66 file(s)	261,895 bytes		

Directory of C:\NAR_TEST\MPS\MVME177\DISK1\SM_DIR

CI 1.4

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
SM_COPY C	1,381	04-16-97	11:11a
SM_MAIN C	5,115	06-03-97	4:21p
SM_INIT C	8,673	11-03-97	11:29a
SM_SCCLD C	3,314	07-07-97	11:30a
SM_CXSUM C	1,351	09-10-96	7:14a
SM_MLIST C	9,914	09-10-96	7:08a
SM_DIADP C	2,821	10-29-97	4:47p
SM_MCOPY C	4,732	09-10-96	7:13a
SM_DPABO C	3,919	11-03-97	10:15a
SM_SCTBL C	25,331	02-27-97	2:59p
SM_SYTBL C	12,344	02-27-97	2:59p
SM_SCCDP C	3,878	10-29-97	4:46p
SM_SETME C	3,524	07-07-97	11:25a
SM_GNBLK C	2,122	06-05-97	8:47a
SM_LOG C	4,010	02-28-97	8:20a
SM_MEMLD C	3,272	07-07-97	11:06a
SM_MLOAD C	3,575	07-07-97	11:31a
SM_PUTQ C	1,164	06-17-97	11:33a
SM_LDRST C	3,466	06-06-97	12:47p
SM_GNABS C	1,739	07-07-97	11:09a
SM_GNTBL C	1,748	07-07-97	11:10a
SM_CCITT C	2,231	11-05-97	11:47a
SM_BDDMP C	4,375	07-07-97	11:13a
SM_DPRST C	2,153	06-04-97	5:29p
SM_GNSTR C	2,290	06-05-97	8:49a
SM_TDREQ C	4,852	11-03-97	2:32p
SM_CRC C	3,051	11-06-97	9:46a
SM_CERLD C	1,901	05-28-97	10:51a
SM_MDREQ C	4,067	10-30-97	12:01p
SM_GATHR C	3,773	11-03-97	11:35a
SM_LDTBL C	4,051	07-07-97	11:33a
SM_STRCT H	30,686	05-21-97	12:29p
SM_TBL H	6,857	07-07-97	10:55a
SM_SCTBL H	1,019	08-09-94	4:58p
SM_SYTBL H	989	08-09-94	5:01p
SM_INCS H	1,498	03-06-97	1:49p
SM_PROTO H	3,635	05-27-97	1:21p

SM_INIT H	5,427	11-12-97	12:20p
SM H	5,381	11-03-97	11:21a
COMP_SM BAT	1,747	05-23-97	1:44p
CF BAT	34	10-04-96	12:34p
LINK_SM CMD	1,680	05-23-97	1:43p
44 file(s)	199,090 bytes		

Directory of C:\NAR_TEST\MPS\MVME177\DISK1\TO_DIR

CI 1.4

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
TO_PBSTR C	4,561	02-20-96	3:10p
TO_CWUPD C	1,085	12-07-93	2:37p
TO_INITR C	1,096	12-07-93	2:56p
TO_INLIS C	1,533	10-06-94	3:06p
TO_SETEC C	2,248	07-28-95	5:19p
TO_DPTLM C	1,567	03-11-96	3:51p
TO_TIMEC C	1,022	12-07-93	3:10p
TO_RTSTP C	1,531	02-04-97	1:44p
TO_SETPB C	1,664	10-17-95	9:24a
TO_SETFL C	1,030	12-07-93	3:07p
TO_PBSTP C	1,349	05-03-94	4:05p
TO_OPSTP C	1,552	07-20-96	11:24a
TO_STOP C	1,096	08-08-94	2:27p
TO_SETXM C	2,179	09-28-94	4:15p
TO_SETRT C	5,202	07-11-96	2:29p
TO_START C	3,386	07-11-95	11:30a
TO_OPSTR C	1,715	10-30-97	3:27p
TCM_ENCO C	3,480	01-28-94	2:41p
TO_BLHDR C	11,442	10-13-95	12:54p
TO_RCVMS C	1,704	09-16-94	8:28a
TO_STDMPC	4,993	10-20-94	7:54a
TO_ABDMP C	3,240	08-02-94	4:09p
TO_PACRE C	4,442	03-06-97	2:47p
TO_CANCE C	3,707	03-06-97	2:46p
TO_PROCD C	4,272	12-12-94	1:08p
TO_EXTPK C	3,368	12-12-94	1:07p
TO_DFRAM C	4,854	12-12-94	1:08p
TO_DPKT C	5,260	12-12-94	1:10p
TO_EVTAB C	2,135	12-12-94	1:10p
TO_CDMMSG C	3,649	03-06-97	2:46p
TO_RINIT C	3,975	10-13-95	12:07p
TO_INIT C	3,505	11-06-97	3:17p
TO_HSIO_ C	2,766	09-26-96	6:41p
TO_RCVHK C	1,068	02-27-96	3:48p
TO_GADDR C	1,541	03-05-96	10:17a
TQ_HSIO_ C	2,702	03-21-96	2:30p
TO_HBRD C	2,264	05-03-96	9:32a
TO_RBF C	1,299	10-07-96	12:41p
TO_UESH C	2,242	11-03-97	4:58p
TO_INES C	2,865	11-18-97	2:37p
TO_SET_T C	4,112	04-25-97	10:03a
TO_SET_H C	3,073	10-07-97	4:28p
TO_RTSTR C	11,470	10-30-97	5:39p

TO_VCDU C	4,976	09-24-97	11:22a
TO_EDU C	10,683	11-06-97	3:23p
TO_MAIN C	14,559	09-24-97	11:18a
NASCOM H	1,680	06-17-93	9:44a
TO_INCS H	752	09-25-96	4:41p
STRUCT H	1,174	01-27-94	4:52p
RSTABLES H	6,383	01-05-94	5:29p
TO_INIT H	3,892	10-19-94	9:59a
TO_STR H	10,589	02-20-96	2:59p
DS_SCI H	337	02-08-95	9:10a
TO_PKT H	5,018	02-20-97	2:54p
TO H	8,748	02-20-97	2:52p
COMP_TO BAT	871	10-07-96	4:20p
T BAT	16	03-18-96	2:45p
B BAT	36	03-18-96	1:15p
CF BAT	34	04-22-96	10:36a
LINK_TO CMD	1,592	09-25-96	1:13p
LINK_BIL CMD	1,393	06-11-96	11:00a

63 file(s) 205,977 bytes

Directory of C:\NAR_TEST\MPS\MVME177\DISK1\TY_DIR

CI 1.4

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
TY_MODEL C	2,933	09-29-96	10:58a
TY_TLM C	1,645	09-04-97	9:26a
TY_CASE C	6,921	09-29-97	10:36a
TY_2CASE C	8,848	07-29-97	3:58p
TY_HSIO C	2,230	10-07-97	5:32p
TY_MON C	3,995	04-09-97	11:13a
TY_CFIG C	5,791	06-26-97	2:38p
TY_RBF C	4,889	03-14-97	8:49a
TY_LOG C	4,118	01-27-97	2:39p
TY_MAIN C	8,443	11-17-97	12:41p
TY_CFTLM C	2,881	08-23-97	3:47a
TY_SETCW C	1,962	08-23-97	3:48a
TY_CFCMD C	2,542	08-23-97	3:49a
TY_UCMD C	8,433	11-19-97	4:59p
TY_SMSG C	1,666	07-09-97	3:28p
TY_CFCV C	1,665	09-03-97	1:02p
TY_PUSR C	1,931	08-23-97	3:50a
TY_NTWK C	2,579	07-28-97	8:20a
TY_SETTM C	2,134	09-30-97	3:20p
TY_RATE C	3,318	11-18-97	12:50p
TY_DEF H	2,387	05-06-96	2:29p
TY_PROTO H	1,589	08-24-97	1:22a
COMP_TY BAT	344	10-20-97	11:23a
CF BAT	36	09-29-96	10:59a
LINK_TY CMD	1,438	11-19-97	11:55a

27 file(s) 84,718 bytes

Directory of C:\NAR_TEST\MPS\MVME177\DISK1\XT_DIR

CI 1.4

.	<DIR>	12-18-97	8:30a
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..	<DIR>	12-18-97	8:30a
TQ_RTSTP C	1,616	02-04-97	1:51p
TQ_HSIO_C	2,922	09-26-96	6:48p
TQ_RTSTR C	11,483	10-27-97	3:00p
TQ_RBF C	1,318	10-07-96	12:45p
TQ_INES C	2,847	11-18-97	2:39p
TQ_UESH C	2,547	11-03-97	5:00p
TQ_CLCW C	2,714	09-23-96	9:10a
TQ_SNDCW C	2,682	07-23-97	1:01p
XRSE C	7,362	09-25-96	10:29a
TQ_VCDU C	5,774	10-29-97	4:47p
TQ_EDU C	12,424	11-12-97	10:48a
XT_INIT C	3,314	07-28-97	8:25a
TQ_RDSOC C	2,622	09-26-97	10:31a
XT_MAIN C	15,178	10-20-97	11:03a
TQ_LDBF C	2,937	10-27-97	2:59p
STRUCT H	1,174	01-27-94	4:52p
RSTABLES H	6,383	01-05-94	5:29p
XT H	2,180	11-12-97	10:47a
DS_STR H	13,711	10-18-94	10:46a
DS_DEF H	4,724	01-15-96	4:25p
PB H	1,609	03-21-96	10:14a
TO_STR H	10,589	02-20-96	2:59p
COMP_XT BAT	302	06-26-97	9:04a
CF BAT	34	04-22-96	10:42a
LINK_XT CMD	1,070	06-26-97	9:04a

27 file(s) 119,516 bytes

MPS Release 1.4.0 MVME177 Source Software (Floppy Disk 2 of 7), 12/19/97

Directory of C:\NAR_TEST\MPS\MVME177\DISK2

CI 1.4

.	<DIR>	12-18-97	8:30a
.	<DIR>	12-18-97	8:30a
AD_DIR	<DIR>	12-18-97	8:30a
CI_DIR	<DIR>	12-18-97	8:30a
DI_DIR	<DIR>	12-18-97	8:30a
IN_DIR	<DIR>	12-18-97	8:30a
MC_DIR	<DIR>	12-18-97	8:30a
MO_DIR	<DIR>	12-18-97	8:30a
MT_DIR	<DIR>	12-18-97	8:30a
NETWORK	<DIR>	12-18-97	8:30a
OP_DIR	<DIR>	12-18-97	8:30a
PDB_GEN	<DIR>	12-18-97	8:30a
SC_DIR	<DIR>	12-18-97	8:30a
TI_DIR	<DIR>	12-18-97	8:30a
UT_DIR	<DIR>	12-18-97	8:30a

15 file(s) 0 bytes

Directory of C:\NAR_TEST\MPS\MVME177\DISK2\AD_DIR

CI 1.4

.	<DIR>	12-18-97	8:30a
.	<DIR>	12-18-97	8:30a
AD_SEND C	4,210	10-11-96	2:26p

AD_ALLOC C	1,925	05-15-97	3:17p
AD_CTRL C	5,051	06-09-95	4:42p
AD_MAIN C	2,954	10-09-97	10:43a
AD H	1,654	05-01-94	4:31p
COMP_AD BAT	71	05-13-96	2:56p
CF BAT	34	10-04-96	11:02a
LINK_AD CMD	907	03-30-95	1:53p
TEST CMD	200	07-11-96	12:02p
11 file(s)	17,006 bytes		

Directory of C:\NAR_TEST\MPS\MVME177\DISK2\CI_DIR

CI 1.4

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
CL_ACPT C	11,046	05-12-97	10:54a
CL_ADDCB C	10,051	06-19-97	3:15p
CL_ARGS C	3,042	10-11-96	1:58p
CL_BLOCK C	6,646	05-12-97	10:55a
CL_BYPAS C	7,502	03-17-97	4:31p
CL_CHHDR C	11,341	09-11-96	8:27a
CL_CTRL C	4,944	02-06-97	4:04p
CL_CXSUM C	1,598	09-10-96	5:53a
CL_DPCMD C	1,543	09-10-96	6:58a
CL_ECC C	1,121	05-12-97	12:59p
CL_HSIO C	5,503	07-09-97	10:06a
CL_LOGCB C	2,366	09-10-96	5:54a
CL_LOGPK C	1,384	09-10-96	6:59a
CL_LOGTF C	1,375	09-10-96	5:52a
CL_M2L C	2,299	09-10-96	7:16a
CL_MAIN C	7,816	06-17-97	11:31a
CL_PKT C	5,882	01-23-97	9:26a
CL_PUTQ C	1,146	06-17-97	11:24a
CL_RCVHK C	3,023	09-10-96	6:58a
CL_ROUTE C	2,226	02-07-97	9:54a
CL_SEG C	4,304	05-12-97	10:54a
CL_SER C	2,557	09-16-97	11:25a
CL_SETCL C	979	09-17-97	2:53p
CL_TFCHK C	5,520	05-12-97	10:56a
CL_TFCON C	5,131	05-12-97	10:56a
CL_TFCCTR C	2,025	09-10-96	7:00a
CL_TYPIN C	12,604	10-18-96	5:19p
CL_UDP C	5,044	06-19-97	11:33a
CL_VLPKT C	4,487	05-12-97	10:56a
CL_VLSEQ C	7,955	02-10-97	8:25a
CL_ADJCN C	1,309	09-23-97	9:27a
CL_ADJCP C	1,324	09-23-97	9:26a
CL_LOG C	11,063	02-10-97	8:31a
CL_INIT C	9,698	11-10-97	10:38a
CL_POLY C	5,703	11-13-97	11:41a
CL_CRC C	4,494	11-06-97	12:05p
CI H	4,386	05-12-97	1:00p
CI_DEF H	2,099	11-10-97	4:00p
CI_INCS H	934	08-07-97	11:21a
CI_INIT H	7,350	09-17-97	10:52a

CL_PKT H	8,640	02-20-96	1:43p
CL_PROTO H	744	09-17-97	10:21a
CL_STR H	5,637	09-17-97	10:00a
CF BAT	34	10-02-96	5:31p
COMP_CI BAT	1,375	09-17-97	10:22a
LINK_CI CMD	1,413	09-17-97	10:23a
	48 file(s)	208,663 bytes	

Directory of C:\NAR_TEST\MPS\MVME177\DISK2\DI_DIR

CI 1.4

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
DI_DUMP C	2,509	10-03-96	5:57p
DI_MAIN C	10,348	06-18-97	5:12p
DI_PUTQ C	1,869	06-18-97	5:12p
DI_INIT C	1,234	06-17-97	10:35a
DI H	866	10-03-96	5:50p
COMP_DI BAT	68	01-31-97	2:25p
CF BAT	34	10-03-96	5:58p
LINK_DI CMD	807	01-31-97	2:26p
	10 file(s)	17,735 bytes	

Directory of C:\NAR_TEST\MPS\MVME177\DISK2\IN_DIR

CI 1.4

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
+IN_MAIN C	3,487	07-22-97	4:19p
+IN_INIT C	1,143	05-30-97	4:17p
+IN SOCK C	1,837	07-11-97	9:44a
+IN H	769	07-11-97	9:47a
+COMP_IN BAT	60	07-11-97	9:51a
+CF BAT	34	10-04-96	11:10a
+LINK_IN CMD	766	07-11-97	9:51a
	9 file(s)	8,096 bytes	

Directory of C:\NAR_TEST\MPS\MVME177\DISK2\MC_DIR

CI 1.4

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
MC_INIT C	2,009	06-05-97	2:07p
MC_SUBS C	3,874	09-10-96	7:05a
MC_CTRL C	1,449	09-10-96	7:05a
MC_FUNC C	1,591	02-19-97	2:26p
MC_HASH C	1,356	09-10-96	7:07a
MC_FIND C	1,508	09-10-96	7:00a
MC_MSG C	5,849	04-24-97	8:51a
MC_SETVR C	1,500	03-17-97	2:57p
MC_IDEN C	6,356	11-17-97	11:35a
MC_CMDS C	4,793	04-17-97	8:26a
MC_PSEND C	4,045	03-17-97	2:56p
MC_VERS C	3,018	12-12-96	1:03p
MC_CHKFX C	2,752	01-29-97	5:23p
MC_CHKVR C	2,834	07-23-96	12:30p
MC_NRML C	7,281	04-24-97	8:40a

MC_PUTQ C	1,164	06-17-97	11:40a
MC_XQT C	3,916	06-09-97	12:31p
MC_OPCMD C	5,024	06-17-97	11:41a
MC_MAIN C	3,882	06-10-97	10:10a
MC_INCS H	581	03-07-95	11:52a
MC_PROTO H	2,973	05-20-97	4:32p
MC H	2,809	10-09-97	9:11a
COMP_MC BAT	1,552	06-05-97	3:08p
CF BAT	34	10-04-96	12:35p
LINK_MC CMD	1,638	06-05-97	3:09p
27 file(s)	73,788 bytes		

Directory of C:\NAR_TEST\MPS\MVME177\DISK2\MO_DIR

CI 1.4

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
MO_CHMD2 C	5,380	08-08-97	3:54p
MO_CHMOD C	4,680	08-10-97	1:45p
MO_COS C	1,899	09-19-97	10:55a
MO_DISMO C	7,962	08-13-96	4:49p
MO_EXP C	2,114	09-19-97	10:55a
MO_HASH C	1,309	08-12-96	5:12p
MO_HINS C	10,879	09-02-97	9:45a
MO_HSRCH C	2,446	08-13-96	2:45p
MO_INIT C	1,902	09-16-96	4:16p
MO_RDALG C	4,983	08-13-97	10:02a
MO_RDTLM C	6,381	09-05-97	2:12p
MO_RDTBL C	6,711	08-13-97	12:34p
MO_RAMP C	2,018	09-19-97	10:57a
MO_SIN C	2,247	09-19-97	10:55a
MO_TBL C	8,737	10-01-97	11:19a
MO_UPDA C	5,876	10-01-97	11:53a
MO_ACTIV C	4,096	08-13-97	4:59p
MO_DSPLY C	1,471	10-01-96	3:34p
MO_SEND C	6,867	09-03-97	2:05p
MO_MAIN C	10,168	10-01-97	10:45a
MO_NSE C	3,281	08-29-97	4:05p
MO_STR H	4,810	08-29-97	4:51p
MO H	2,507	10-01-97	10:47a
MO_PROTO H	2,290	08-10-97	2:29p
MO_INCS H	808	08-10-97	1:46p
MO_DEF H	921	08-29-97	2:28p
COMP_MO BAT	434	08-29-97	4:40p
CF BAT	34	09-12-96	4:29p
LINK_MO CMD	1,322	08-29-97	4:41p
31 file(s)	114,533 bytes		

Directory of C:\NAR_TEST\MPS\MVME177\DISK2\MT_DIR

CI 1.4

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
MT_PARMS C	4,041	08-07-96	10:40a
MT_MAIN C	3,180	11-12-97	10:18a
MT_CPRPM C	1,356	06-12-96	11:11a

MT_LOC C	9,870	11-10-97	4:25p
MT_DISC C	4,158	07-19-96	1:04p
MT_FIND C	1,582	06-10-96	11:59a
MT_HASH C	1,309	06-10-96	11:59a
MT_SET C	8,262	11-17-97	10:47a
MT_DSPLY C	8,147	04-08-97	4:48p
MT_SHOW C	3,512	06-12-96	2:09p
MT_CVEUA C	2,068	06-21-96	2:39p
MT_CVTEU C	2,673	06-17-96	5:03p
MT_CVTRW C	2,220	06-21-96	2:40p
MT_PTRTB C	2,415	02-06-97	4:25p
MT_SETTL C	3,701	11-19-97	4:58p
MT_IVALU C	3,818	11-10-97	9:21a
MT_UPD C	2,543	11-11-97	9:16a
MT_GETTL C	9,308	11-19-97	1:56p
MT_SETAP C	4,892	04-03-97	3:03p
MT_C1750 C	5,557	11-19-97	4:57p
MT_INCS H	622	06-10-96	12:05p
MT_IPTRT H	666	06-12-96	11:17a
MT_IVALU H	1,617	09-20-94	11:10a
MT_PROTO H	2,848	11-19-97	2:45p
MT H	1,724	11-12-97	10:15a
COMP_MT BAT	316	11-17-97	11:10a
CF BAT	34	09-16-96	5:19p
LINK_MT CMD	1,106	11-17-97	11:11a

30 file(s) 93,545 bytes

Directory of C:\NAR_TEST\MPS\MVME177\DISK2\NETWORK

CI 1.4

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
SEND C	4,103	08-28-97	1:49p
MOMDSIM C	5,508	09-11-97	10:13a
MOMD C	2,322	05-16-97	9:00a
MREC C	2,862	05-27-97	1:13p
MULT C	11,409	08-09-97	12:15p
UDPT2 C	3,551	07-07-97	2:55p
MUDP1 C	2,508	05-16-97	8:54a
SSEND C	9,221	06-17-97	11:08a
MTEST C	6,837	05-19-97	8:57a
MMSEND C	3,210	05-20-97	4:26p
UDPSEND C	3,489	06-13-97	10:52a
PSEND C	10,414	06-19-97	4:13p
UDPT1 C	2,712	07-07-97	2:54p
DEMO H	4,057	05-16-97	11:37a
CF BAT	30	01-14-97	1:12a
COMP_NET BAT	74	08-15-97	10:16a
SEND CMD	190	07-25-96	10:17p
UDPT1 CMD	191	08-01-96	10:55a
UDPT2 CMD	191	08-15-96	12:27a
MULT CMD	190	05-07-97	12:45p
MSEND CMD	191	05-08-97	11:37a
SSEND CMD	191	05-13-97	10:57a
MTEST CMD	191	05-19-97	8:48a

MREC CMD	190	05-27-97	12:29p
MMSEND CMD	192	05-20-97	12:34p
MOMDSIM CMD	193	08-08-97	1:55p
UDPSEND CMD	193	05-29-97	8:25a
PSEND CMD	191	06-19-97	9:29a
SEND SY	18,788	11-20-97	10:18a
UDPT1 SY	16,804	11-20-97	10:18a
UDPT2 SY	16,804	11-20-97	10:18a
MOMDSIM SY	19,226	11-20-97	10:18a
34 file(s)	146,223 bytes		

Directory of C:\NAR_TEST\MPS\MVME177\DISK2\OP_DIR

CI 1.4

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
OP_ERMSG C	1,718	05-10-94	2:45p
OP_MMSG C	2,018	09-10-93	5:40p
OP_MSG C	1,235	12-01-93	6:12p
OP_NMSG C	1,669	09-10-93	5:41p
OP_SMSGO C	1,365	09-10-93	5:42p
OP_SMSG C	4,370	07-17-96	4:03p
OP_QMGR C	5,612	11-16-93	12:56p
OP_XMIT C	1,658	11-04-93	4:17p
OP_MAIN C	3,655	05-10-94	2:45p
OP_DBMSG C	2,233	11-04-93	4:16p
OP_STATN C	2,969	01-24-94	12:30p
OP_QOPTS C	3,841	01-24-94	12:32p
OP_LROW C	3,708	01-14-94	2:49p
OP_SROW C	3,596	01-14-94	2:55p
OP_STATC C	5,804	01-24-94	12:30p
COMP_OP BAT	288	10-04-96	11:03a
CF BAT	34	10-04-96	11:05a
LINK_OP CMD	962	05-29-97	4:34p
20 file(s)	46,735 bytes		

Directory of C:\NAR_TEST\MPS\MVME177\DISK2\PDB_GEN

CI 1.4

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
PD_IVALW C	10,927	11-17-97	1:10p
PD_IVAL2 C	8,884	11-19-97	6:17p
PD_RDISC C	3,073	10-08-97	1:19p
PD_XTLP C	3,685	10-08-97	1:15p
PD_MAIN C	8,414	11-24-97	3:17p
PD_RTLM C	3,054	10-07-97	3:44p
PD_OPT C	1,624	10-07-97	3:41p
PD_RLOCI C	3,600	10-07-97	3:31p
PD_IVAL1 C	3,773	11-07-97	4:15p
PD_PARM C	3,983	10-21-97	5:22p
PD_LOC C	7,899	10-21-97	5:19p
PD_DISC C	8,707	10-29-97	11:04a
PD_TLM C	13,204	11-10-97	1:53p
PD_CMDS C	10,811	10-07-97	3:25p
PD_HASH C	1,274	10-07-97	3:25p

PD_FIND C	2,153	10-07-97	3:24p
PD_VERS C	24,790	12-03-97	6:03a
PD_SUBS C	18,260	10-09-97	10:55a
PD_IVALU C	4,576	10-10-97	3:10p
PD_XTRAC C	2,121	11-27-96	3:07p
PD_CVETR C	7,491	11-10-97	11:33a
PD_C1750 C	5,320	11-19-97	6:16p
PD_PROTO H	1,841	11-19-97	6:16p
PD H	2,899	11-09-97	1:57p
PD_INCS H	626	10-07-97	2:29p
BEGIN H	610	02-28-96	1:52p
COMP_PDB BAT	451	11-09-97	2:42p
CF BAT	36	10-09-97	11:05a
LINK_PDB CMD	1,665	11-09-97	2:44p
31 file(s)	159,245 bytes		

Directory of C:\NAR_TEST\MPS\MVME177\DISK2\SC_DIR

CI 1.4

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
SC_ALOAD C	3,383	07-25-97	11:05a
SC_INIT C	4,234	08-04-97	2:48p
SC_MAIN C	5,137	08-10-97	1:30p
SC_TNEXT C	2,704	08-04-97	1:23p
SC_UTILS C	6,251	08-06-97	5:06p
SC_DOATP C	9,167	06-17-97	11:54a
SC_RSTRT C	3,221	08-04-97	1:48p
SC_DORTP C	3,828	06-17-97	11:55a
SC_CMDS C	13,252	08-04-97	1:54p
SC_INIT H	1,427	08-04-97	1:19p
SC H	3,411	08-04-97	11:45a
SC_PROTO H	1,003	05-08-97	9:56a
SC_PKT H	6,381	07-25-97	9:35a
SC_INCS H	1,160	05-09-97	9:20a
COMP_SC BAT	835	04-03-97	2:14p
CF BAT	34	10-04-96	12:34p
LINK_SC CMD	990	04-03-97	2:17p
19 file(s)	66,418 bytes		

Directory of C:\NAR_TEST\MPS\MVME177\DISK2\TL_DIR

CI 1.4

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
TL_WRITE C	2,004	09-27-94	4:04p
TL_INIT C	5,960	09-22-97	2:29p
TL_ASCTM C	2,302	10-28-94	6:35p
TL_WAIT C	1,587	09-27-94	4:03p
TL_SETSL C	2,047	09-13-93	2:55p
TL_SLEEP C	2,160	03-03-94	5:26p
TL_SETGM C	2,281	07-22-96	2:37p
TL_TO_SC C	1,609	04-24-95	1:34p
TL_GETGM C	1,402	09-27-94	3:45p
TL_DELAY C	1,034	09-27-94	3:44p
TL_GETSC C	1,241	09-23-97	9:03a

TI_SETSC C	1,918	09-24-97	9:19a
TI_ACCEL C	1,684	11-02-94	7:00p
LOG_CORR C	814	12-29-94	2:38p
TI_MAIN C	8,752	09-22-97	3:46p
TI_READ C	6,602	04-14-95	3:42p
TI_SC_SL C	1,704	04-14-95	2:57p
TI_TO_YD C	1,843	04-12-94	4:48p
TI_1HZ C	12,260	07-19-96	1:47p
TI_SBUTD C	3,124	09-27-94	3:54p
TI_ADUTD C	3,200	07-01-94	1:36p
TI_ADDUT C	6,727	09-27-94	3:33p
TI_CMDS C	8,059	04-24-95	1:35p
TI_UTILS C	9,384	01-13-95	4:02p
TI_SUBUT C	5,528	06-30-94	7:05p
TI_CORR C	6,009	01-23-95	2:24p
TI_DOCOR C	5,033	01-16-95	3:57p
TI_NCC C	23,640	02-06-95	3:34p
TI_334 C	9,402	08-04-95	5:27p
TI_SETNS C	3,385	10-11-94	5:54p
TI_PB5C C	3,166	08-28-96	1:40p
TI_SFSCT C	1,111	09-23-97	9:10a
TI_GFSCT C	1,172	09-22-97	4:02p
TI_SSTBS C	1,015	09-23-97	9:09a
TI_GREGR C	2,874	09-24-97	10:24a
TI_SDN C	2,542	09-22-97	4:21p
TI_INCS H	793	09-22-97	4:19p
TI_STR H	1,855	01-05-96	1:16p
TI H	7,272	09-22-97	2:25p
TI_INIT H	2,458	12-30-94	11:50a
TI_PROTO H	4,082	09-23-97	9:05a
DEMO H	2,556	01-17-95	2:53p
TI_334 H	3,034	08-04-95	5:23p
TI_PKT H	8,880	07-01-94	1:15p
TI_NCC H	2,526	01-04-95	12:05p
SDNCAL H	3,904	09-22-97	2:38p
COMP_TI BAT	633	09-23-97	11:12a
CF BAT	34	10-04-96	11:13a
BIL BAT	36	10-04-96	2:28p
LINK_TI CMD	1,331	09-23-97	11:12a

52 file(s) 193,969 bytes

Directory of C:\NAR_TEST\MPS\MVME177\DISK2\UT_DIR

CI 1.6

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
FQ2 C	4,251	06-18-96	4:05p
UT_GET C	3,156	10-05-94	8:48p
FQ2 H	3,942	06-18-96	2:33p
COMP_UT BAT	31	01-13-97	11:07p

6 file(s) 11,380 bytes

MPS Release 1.4.0 MVME177 Source Software (Floppy Disk 3 of 7), 12/19/97

Directory of C:\NAR_TEST\MPS\MVME177\DISK3

CI 1.6

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
MDB_GEN	<DIR>	12-18-97	8:30a
3 file(s)	0 bytes		

Directory of C:\NAR_TEST\MPS\MVME177\DISK3\MDB_GEN

CI 1.6

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
MD_WRITE C	7,351	09-12-97	5:09p
MD_CVRT C	17,468	09-26-97	10:58a
MD_CWDSW C	9,358	09-26-97	11:00a
MD_CVTRW C	7,560	10-28-97	3:26p
MD_TBL2 C	3,504	08-19-97	1:37p
MD_TABLE C	12,496	09-26-97	3:31p
MD_RAMP C	2,102	08-25-97	11:57a
MD_EXP C	2,070	09-02-97	5:54p
MD_COS C	2,051	09-19-97	11:01a
MD_SIN C	2,142	09-19-97	11:02a
MD_WORK C	6,299	09-10-97	4:20p
MD_ALG C	10,043	09-18-97	10:30a
MD_TLM4 C	14,938	10-01-97	1:00p
MD_TLM1 C	3,730	08-11-97	4:42p
MD_HASH C	1,802	07-23-97	11:03a
MD_FIND C	3,053	07-30-97	4:42p
MD_CVTEU C	3,045	07-30-97	4:49p
MD_RCAL C	12,433	11-03-97	3:59p
MD_INIT C	2,519	08-27-97	6:11p
MD_MAIN C	7,098	09-17-97	9:35a
MD_CVTMM C	5,298	11-03-97	3:57p
MD_TBL1 C	4,031	08-12-97	11:04a
MD_TLPAR C	4,001	09-26-97	9:54a
MD_SIGN C	2,039	07-07-97	5:19p
MD_RPOLY C	5,196	09-02-97	10:31a
MD_RBRKT C	3,261	10-13-97	10:39a
MD_PR2EF C	3,352	10-13-97	10:47a
MD_PEU2R C	6,263	10-13-97	11:26a
MD_MINUS C	2,039	07-07-97	5:14p
MD_FROOT C	3,788	10-21-97	3:42p
MD_BRGVI C	6,290	10-28-97	3:29p
PD_XTRAC C	2,121	11-27-96	3:07p
MD_TLM2 C	8,451	08-21-97	1:21p
MD_TLM C	9,371	09-10-97	4:00p
MD_TLM3 C	8,360	08-21-97	1:22p
MD_PROTO H	4,282	10-13-97	10:18a
MD H	2,843	10-06-97	10:06a
MD_INCS H	841	10-06-97	10:05a
MD_STR H	3,314	10-06-97	10:05a
MD_DEF H	2,563	10-09-97	10:10a
PDB H	16,514	11-10-97	4:30p
COMP_MDB BAT	605	07-30-97	10:47a
CF BAT	36	07-30-97	10:49a
LINK_MDB CMD	1,802	08-28-97	10:23a

46 file(s) 237,723 bytes

MPS Release 1.4.0 MVME177 Source Software (Floppy Disk 4 of 7), 12/19/97

Directory of C:\NAR_TEST\MPS\MVME177\DISK4

CI.4

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
BLD1_4	<DIR>	12-18-97	8:30a
3 file(s)	0 bytes		

Directory of C:\NAR_TEST\MPS\MVME177\DISK4\BLD1_4

CI 1.4

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
ACPT	<DIR>	12-18-97	8:30a
DATABASE	<DIR>	12-18-97	8:30a
CLEAR	21	11-20-97	3:09p
PDB14	<DIR>	12-18-97	8:30a
+RUN_MPS	256	11-20-97	3:09p
+ 7 file(s)	277 bytes		

+Directory of C:\NAR_TEST\MPS\MVME177\DISK4\BLD1_4\ACPT

CI 1.4

.	<DIR>	12-18-97	8:30a
AC BKP	821	11-20-97	3:11p
XAD	16,436	11-20-97	3:11p
XCI	34,654	11-20-97	3:11p
XDI	18,412	11-20-97	3:11p
XDS	20,968	11-20-97	3:11p
XGT	18,964	11-20-97	3:11p
XIN	17,824	11-20-97	3:11p
XMC	25,300	11-20-97	3:11p
XMO	34,648	11-20-97	3:11p
XMT	25,472	11-20-97	3:11p
XOP	18,736	11-20-97	3:11p
XSC	22,072	11-20-97	3:12p
XSM	32,542	11-20-97	3:12p
XTI	37,834	11-20-97	3:12p
XTO	37,424	11-20-97	3:12p
XTY	37,848	11-20-97	3:12p
XXT	35,688	11-20-97	3:12p
19 file(s)	435,643 bytes		

Directory of C:\NAR_TEST\MPS\MVME177\DISK4\BLD1_4\DATABASE

CI 1.4

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
XMDB	66,920	11-20-97	3:14p
XPDB	72,412	11-20-97	3:14p
4 file(s)	139,332 bytes		

Directory of C:\NAR_TEST\MPS\MVME177\DISK4\BLD1_4\PDB14

CI 1.4

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
PDB14 ZIP	788,026	11-20-97	3:33p
CMDS PDB	455,910	11-20-97	3:29p
CONTIG14 AC	426	11-20-97	3:29p
DISC PDB	478,850	11-20-97	3:29p
IVALUE PDB	291,232	11-20-97	3:29p
LOC PDB	4,706,152	11-20-97	3:29p
SUBS PDB	871,182	11-20-97	3:29p
TLPAR PDB	1,638,180	11-20-97	3:29p
VERS PDB	74,544	11-20-97	3:29p
12 file(s)	9,333,461 bytes		

MPS Release 1.4.0 MVME177 Source Software (Floppy Disk 5 of 7), 12/19/97

Directory of C:\NAR_TEST\MPS\MVME177\DISK5

CI 1.4

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
PDB15 ZIP	800,660	11-20-97	3:34p
CMDS PDB	457,470	11-20-97	3:30p
CONTIG15 AC	426	11-20-97	3:30p
DISC PDB	482,050	11-20-97	3:30p
IVALUE PDB	296,160	11-20-97	3:30p
LOC PDB	4,805,592	11-20-97	3:31p
SUBS PDB	873,810	11-20-97	3:31p
TLPAR PDB	1,665,900	11-20-97	3:31p
VERS PDB	80,832	11-20-97	3:31p
12 file(s)	9,491,859 bytes		

MPS Release 1.4.0 MVME177 Source Software (Floppy Disk 6 of 7), 12/19/97

Directory of C:\NAR_TEST\MPS\MVME177\DISK6

CI 1.4

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
PDB14SRC ZIP	1,246,873	11-18-97	2:16p
CMD_FIXD PDB	298,935	10-14-97	3:54p
TLM_POLY PDB	37,198	10-14-97	4:07p
CMD_PARM PDB	212,805	10-14-97	3:54p
CMD_VARD PDB	109,008	10-14-97	3:55p
CMD_VERI PDB	95,279	10-14-97	3:55p
TLM_CALC PDB	168,641	10-14-97	3:55p
TLM_DSTA PDB	334,345	10-14-97	3:56p
TLM_PARM PDB	4,465,018	10-14-97	4:11p
TLM_RYLI PDB	101,217	10-14-97	4:08p
RENAME AC	316	11-18-97	2:16p
14 file(s)	7,098,594 bytes		

MPS Release 1.4.0 MVME177 Source Software (Floppy Disk 7 of 7), 12/19/97

Directory of C:\NAR_TEST\MPS\MVME177\DISK7

CI 1.4

.	<DIR>	12-18-97	8:30a
..	<DIR>	12-18-97	8:30a
PDB15SRC ZIP	1,283,219	11-18-97	2:35p
CMD_FIXD PDB	299,770	10-28-97	4:07p
TLM_POLY PDB	36,970	10-28-97	4:10p
CMD_PARM PDB	213,570	10-28-97	4:08p
CMD_VARD PDB	109,892	10-28-97	4:08p
CMD_VERI PDB	102,922	10-28-97	4:08p
TLM_CALC PDB	208,407	10-28-97	4:08p
TLM_DSTA PDB	336,660	10-28-97	4:09p
TLM_PARM PDB	4,560,770	10-28-97	4:10p
TLM_RYLI PDB	104,096	10-28-97	4:10p
RENAME AC	308	11-18-97	2:35p

14 file(s) 7,285,543 bytes

Total files listed:

787 file(s) 36,238,757 bytes
343,400,448 bytes free

MPS Release 1.4.0 MVME 187 Source Software (4mm tape), 12/19/97

rwxr-xr-x	204/210	0	Nov 19 13:32 1997 ./	
rwxr-xr-x	204/210	0	Nov 19 13:31 1997 ./INSTALL/	CI 1.3
r-xr--r--	204/210	4633	Nov 19 13:31 1997 ./INSTALL/ets_build	
r--r--r--	204/210	1656	Nov 19 13:31 1997 ./INSTALL/ets_build_procedure	
r-xr--r--	204/210	13571	Nov 19 13:31 1997 ./INSTALL/ets_deliver	
r--r--r--	204/210	1235	Nov 19 13:31 1997 ./INSTALL/ets_delivery_procedure	
r-xr--r--	204/210	8341	Nov 19 13:31 1997 ./INSTALL/ets_instll	
r-xr--r--	204/210	5729	Nov 19 13:31 1997 ./INSTALL/ets_mkdir	
r-xr--r--	204/210	6244	Nov 19 13:31 1997 ./INSTALL/ets_setup	
r-xr--r--	204/210	8341	Nov 19 13:31 1997 ./ets_install	
rwxr-xr-x	204/210	0	Nov 19 13:31 1997 ./include/	CI 1.3
r--r--r--	204/210	1120	Nov 19 13:31 1997 ./include/ETSComboBox.h	
r--r--r--	204/210	2057	Nov 19 13:31 1997 ./include/ETSCountForm.h	
r--r--r--	204/210	1440	Nov 19 13:31 1997 ./include/ETSSpinner.h	
r--r--r--	204/210	1467	Nov 19 13:31 1997 ./include/ETSSpinner2.h	
r--r--r--	204/210	1553	Nov 19 13:31 1997 ./include/ansi_setup.h	
r--r--r--	204/210	2609	Nov 19 13:31 1997 ./include/cau.h	
r--r--r--	204/210	2221	Nov 19 13:31 1997 ./include/cobl_util.h	
r--r--r--	204/210	1457	Nov 19 13:31 1997 ./include/crlf_util.h	
r--r--r--	204/210	896	Nov 19 13:31 1997 ./include/cuw.h	
r--r--r--	204/210	1137	Nov 19 13:31 1997 ./include/dae_util.h	
r-xr-xr-x	204/210	1933	Nov 19 13:31 1997 ./include/dct.h	
r--r--r--	204/210	7794	Nov 19 13:31 1997 ./include/dct_crstuff.h	
r--r--r--	204/210	1480	Nov 19 13:31 1997 ./include/dct_packet.h	
r--r--r--	204/210	1111	Nov 19 13:31 1997 ./include/dct_status.h	
r--r--r--	204/210	1403	Nov 19 13:31 1997 ./include/dct_utils.h	
r--r--r--	204/210	5952	Nov 19 13:31 1997 ./include/dct_verify.h	
r--r--r--	204/210	2058	Nov 19 13:31 1997 ./include/drs_util.h	
r--r--r--	204/210	1888	Nov 19 13:31 1997 ./include/dui.h	
r--r--r--	204/210	1411	Nov 19 13:31 1997 ./include/duw.h	
r-xr-xr-x	204/210	1990	Nov 19 13:31 1997 ./include/dvt.h	

r--r--r--	204/210	7942	Nov 19 13:31 1997 ./include/dvt_crstuff.h
r--r--r--	204/210	1417	Nov 19 13:31 1997 ./include/dvt_packet.h
r--r--r--	204/210	1251	Nov 19 13:31 1997 ./include/dvt_status.h
r--r--r--	204/210	1340	Nov 19 13:31 1997 ./include/dvt_utils.h
r--r--r--	204/210	5568	Nov 19 13:31 1997 ./include/dvt_verify.h
r--r--r--	204/210	1087	Nov 19 13:31 1997 ./include/environ.h
r--r--r--	204/210	2685	Nov 19 13:31 1997 ./include/ets.h
r--r--r--	204/210	2395	Nov 19 13:31 1997 ./include/fnm_util.h
r--r--r--	204/210	2011	Nov 19 13:31 1997 ./include/gen.h
r--r--r--	204/210	1555	Nov 19 13:31 1997 ./include/get_util.h
r--r--r--	204/210	3034	Nov 19 13:31 1997 ./include/gui.h
r--r--r--	204/210	2461	Nov 19 13:31 1997 ./include/hash_util.h
r--r--r--	204/210	3373	Nov 19 13:31 1997 ./include/ipc_ets.h
r--r--r--	204/210	2936	Nov 19 13:31 1997 ./include/lfn_util.h
r--r--r--	204/210	33680	Nov 19 13:31 1997 ./include/longlong.h
r--r--r--	204/210	3342	Nov 19 13:31 1997 ./include/meds.h
r--r--r--	204/210	1870	Nov 19 13:31 1997 ./include/medshdr.h
r--r--r--	204/210	1226	Nov 19 13:31 1997 ./include/medstype.h
r--r--r--	204/210	839	Nov 19 13:31 1997 ./include/medsver.h
r--r--r--	204/210	2989	Nov 19 13:31 1997 ./include/meo_util.h
r--r--r--	204/210	2645	Nov 19 13:31 1997 ./include/mist_util.h
r--r--r--	204/210	3998	Nov 19 13:31 1997 ./include/mmc.h
r--r--r--	204/210	13983	Nov 19 13:31 1997 ./include/mps.h
r--r--r--	204/210	874	Nov 19 13:31 1997 ./include/muc_scenario.h
r--r--r--	204/210	5162	Nov 19 13:31 1997 ./include/mui.h
r--r--r--	204/210	467	Nov 19 13:31 1997 ./include/mui_scenario_constanth
r--r--r--	204/210	6684	Nov 19 13:31 1997 ./include/muw.h
r--r--r--	204/210	1419	Nov 19 13:31 1997 ./include/net_util.h
r--r--r--	204/210	3797	Nov 19 13:31 1997 ./include/nft_proc.h
r--r--r--	204/210	4973	Nov 19 13:31 1997 ./include/nft_util.h
r--r--r--	204/210	4432	Nov 19 13:31 1997 ./include/nix_util.h
r--r--r--	204/210	1646	Nov 19 13:31 1997 ./include/om_acc_noti_struct.h
r--r--r--	204/210	12682	Nov 19 13:31 1997 ./include/om_coda_struct.h
r--r--r--	204/210	1555	Nov 19 13:31 1997 ./include/om_counterstruct.h
r--r--r--	204/210	1303	Nov 19 13:31 1997 ./include/om_dlg.h
r--r--r--	204/210	4311	Nov 19 13:31 1997 ./include/om_eds_pds_struct.h
r--r--r--	204/210	1040	Nov 19 13:31 1997 ./include/om_hrs_data_struct.h
r--r--r--	204/210	513	Nov 19 13:31 1997 ./include/om_hrs_names.h
r--r--r--	204/210	2252	Nov 19 13:31 1997 ./include/om_lrs_data_struct.h
r--r--r--	204/210	7292	Nov 19 13:31 1997 ./include/om_lrs_names.h
r--r--r--	204/210	855	Nov 19 13:31 1997 ./include/om_pb_5_struct.h
r--r--r--	204/210	8227	Nov 19 13:31 1997 ./include/om_tss_struct.h
r--r--r--	204/210	5548	Nov 19 13:31 1997 ./include/omd.h
r--r--r--	204/210	2847	Nov 19 13:31 1997 ./include/omd_struct.h
r--r--r--	204/210	2915	Nov 19 13:31 1997 ./include/opt_util.h
r--r--r--	204/210	5635	Nov 19 13:31 1997 ./include/oui.h
r--r--r--	204/210	2536	Nov 19 13:31 1997 ./include/ouw.h
r--r--r--	204/210	861	Nov 19 13:31 1997 ./include/quad_struct.h
r--r--r--	204/210	3023	Nov 19 13:31 1997 ./include/rbu.h
r--r--r--	204/210	11511	Nov 19 13:31 1997 ./include/rex_internals.h
r--r--r--	204/210	2619	Nov 19 13:31 1997 ./include/rex_util.h
r--r--r--	204/210	952	Nov 19 13:31 1997 ./include/ruw.h
r--r--r--	204/210	1692	Nov 19 13:31 1997 ./include/skt_util.h
r--r--r--	204/210	2950	Nov 19 13:31 1997 ./include/stan_util.h

r--r--r--	204/210	3351	Nov 19 13:31 1997 ./include/str_util.h	
r--r--r-x	204/210	3181	Nov 19 13:31 1997 ./include/tcp_util.h	
r--r--r--	204/210	2263	Nov 19 13:31 1997 ./include/ts_util.h	
r--r--r--	204/210	1367	Nov 19 13:31 1997 ./include/tss_id_struct.h	
r--r--r--	204/210	2086	Nov 19 13:31 1997 ./include/tv_util.h	
r--r--r--	204/210	2779	Nov 19 13:31 1997 ./include/udp_util.h	
r--r--r--	204/210	1770	Nov 19 13:31 1997 ./include/vperror.h	
r--r--r--	204/210	1818	Nov 19 13:31 1997 ./include/vui.h	
r--r--r--	204/210	1300	Nov 19 13:31 1997 ./include/vuw.h	
r--r--r--	204/210	2947	Nov 19 13:31 1997 ./include/xnet_util.h	
r-xr-xr-x	204/210	5541	Nov 19 13:31 1997 ./include/xxx_TransEnv.h	
r-xr-xr-x	204/210	5434	Nov 19 13:31 1997 ./include/xxx_Types.h	
r-xr-xr-x	204/210	12602	Nov 19 13:31 1997 ./include/xxx_db_Defs.h	
r-xr-xr-x	204/210	2586	Nov 19 13:31 1997 ./include/xxx_ipc.h	
r-xr-xr-x	204/210	4559	Nov 19 13:31 1997 ./include/xxx_network.h	
rwxr-xr-x	204/210	0	Nov 19 13:31 1997 ./lib/	CI 1.3
rwxr-xr-x	204/210	0	Nov 19 13:31 1997 ./lib/gui/	
r--r--r--	204/210	8268	Nov 19 13:31 1997 ./lib/gui/ETSCComboBox.c	
r--r--r--	204/210	3965	Nov 19 13:31 1997 ./lib/gui/ETSCComboBox.uil	
r--r--r--	204/210	17070	Nov 19 13:31 1997 ./lib/gui/ETSCountForm.c	
r--r--r--	204/210	8188	Nov 19 13:31 1997 ./lib/gui/ETSCountForm.uil	
r--r--r--	204/210	9596	Nov 19 13:31 1997 ./lib/gui/ETSSpinner.c	
r--r--r--	204/210	4196	Nov 19 13:31 1997 ./lib/gui/ETSSpinner.uil	
r--r--r--	204/210	10091	Nov 19 13:31 1997 ./lib/gui/ETSSpinner2.c	
r--r--r--	204/210	4543	Nov 19 13:31 1997 ./lib/gui/ETSSpinner2.uil	
r--r--r--	204/210	1020	Nov 19 13:31 1997 ./lib/gui/ets_widget.mk	
r--r--r--	204/210	1110	Nov 19 13:31 1997 ./lib/gui/ets_widget_vme.mk	
r--r--r--	204/210	1651	Nov 19 13:31 1997 ./lib/gui/guc_class.c	
r--r--r--	204/210	5584	Nov 19 13:31 1997 ./lib/gui/guc_combo_box_funcs.c	
r--r--r--	204/210	4333	Nov 19 13:31 1997 ./lib/gui/guc_count_funcs.c	
r--r--r--	204/210	12703	Nov 19 13:31 1997 ./lib/gui/guc_help_funcs.c	
r--r--r--	204/210	4071	Nov 19 13:31 1997 ./lib/gui/guc_hex_modify_verify.c	
r--r--r--	204/210	4821	Nov 19 13:31 1997 ./lib/gui/guc_int_check_range.c	
r--r--r--	204/210	4967	Nov 19 13:31 1997 ./lib/gui/guc_int_modify_verify.c	
r--r--r--	204/210	7103	Nov 19 13:31 1997 ./lib/gui/guc_int_spin_funcs.c	
r--r--r--	204/210	5103	Nov 19 13:31 1997 ./lib/gui/guc_oct_modify_verify.c	
r--r--r--	204/210	1857	Nov 19 13:31 1997 ./lib/gui/guc_toupper.c	
r--r--r--	204/210	9757	Nov 19 13:31 1997 ./lib/gui/guf_ask_user_funcs.c	
r--r--r--	204/210	3081	Nov 19 13:31 1997 ./lib/gui/guf_busy_cursor_funcs.c	
r--r--r--	204/210	14008	Nov 19 13:31 1997 ./lib/gui/guf_log_funcs.c	
r--r--r--	204/210	7363	Nov 19 13:31 1997 ./lib/gui/guf_popup_file_sel_box.c	
r--r--r--	204/210	6194	Nov 19 13:31 1997 ./lib/gui/guf_popup_message_box.c	
r--r--r--	204/210	6717	Nov 19 13:31 1997 ./lib/gui/guf_popup_prompt_box.c	
r--r--r--	204/210	2246	Nov 19 13:31 1997 ./lib/gui/gui.mk	
r--r--r--	204/210	2064	Nov 19 13:31 1997 ./lib/gui/gui_vme.mk	
rwxr-xr-x	204/210	0	Nov 19 13:31 1997 ./lib/gen/	
r--r--r--	204/210	1096	Nov 19 13:31 1997 ./lib/gen/gen.mk	
r--r--r--	204/210	1119	Nov 19 13:31 1997 ./lib/gen/gen_vme.mk	
r--r--r--	204/210	5265	Nov 19 13:31 1997 ./lib/gen/gnf_get_current_time.c	
r--r--r--	204/210	9517	Nov 19 13:31 1997 ./lib/gen/gnf_pb5_time_funcs.c	
r--r--r--	204/210	6799	Nov 19 13:31 1997 ./lib/gen/gnf_separate_lines.c	
r-xr-xr-x	204/210	4743	Nov 19 13:31 1997 ./lib/build_lib	
rwxr-xr-x	204/210	0	Nov 19 13:31 1997 ./lib/ ipc/	
r--r--r--	204/210	1805	Nov 19 13:31 1997 ./lib/ ipc/ ipc.mk	

r--r--r--	204/210	3302	Nov 19 13:31 1997 ./lib/ipc/ipc_client_socket.c	
r--r--r--	204/210	12181	Nov 19 13:31 1997 ./lib/ipc/ipc_fifo_funcs.c	
r--r--r--	204/210	3587	Nov 19 13:31 1997 ./lib/ipc/ipc_server_socket.c	
r--r--r--	204/210	1537	Nov 19 13:31 1997 ./lib/ipc/ipc_vme.mk	
r-xr-xr-x	204/210	8057	Nov 19 13:31 1997 ./lib/ipc/xxx_ipc_accept.c	
r-xr-xr-x	204/210	14165	Nov 19 13:31 1997 ./lib/ipc/xxx_ipc_client.c	
r-xr-xr-x	204/210	4213	Nov 19 13:31 1997 ./lib/ipc/xxx_ipc_close.c	
r-xr-xr-x	204/210	2910	Nov 19 13:31 1997 ./lib/ipc/xxx_ipc_clr.c	
r-xr-xr-x	204/210	3430	Nov 19 13:31 1997 ./lib/ipc/xxx_ipc_isset.c	
r-xr-xr-x	204/210	11628	Nov 19 13:31 1997 ./lib/ipc/xxx_ipc_read.c	
r-xr-xr-x	204/210	12001	Nov 19 13:31 1997 ./lib/ipc/xxx_ipc_read1.c	
r-xr-xr-x	204/210	9494	Nov 19 13:31 1997 ./lib/ipc/xxx_ipc_rsdb.c	
r-xr-xr-x	204/210	5805	Nov 19 13:31 1997 ./lib/ipc/xxx_ipc_select.c	
r-xr-xr-x	204/210	16393	Nov 19 13:31 1997 ./lib/ipc/xxx_ipc_server.c	
r-xr-xr-x	204/210	2899	Nov 19 13:31 1997 ./lib/ipc/xxx_ipc_set.c	
r-xr-xr-x	204/210	13268	Nov 19 13:31 1997 ./lib/ipc/xxx_ipc_write.c	
r-xr-xr-x	204/210	13432	Nov 19 13:31 1997 ./lib/ipc/xxx_ipc_write1.c	
r-xr-xr-x	204/210	12143	Nov 19 13:31 1997 ./lib/ipc/xxx_ipc_write2.c	
r-xr-xr-x	204/210	2992	Nov 19 13:31 1997 ./lib/ipc/xxx_ipc_zero.c	
rwxr-xr-x	204/210	0	Nov 19 13:31 1997 ./mc/	CI 1.3
rwxr-xr-x	204/210	0	Nov 19 13:31 1997 ./mc/mc_ui/	
r-xr-xr-x	204/210	90837	Nov 19 13:31 1997 ./mc/mc_ui/bxutil-c.c	
r--r--r--	204/210	3060	Nov 19 13:31 1997 ./mc/mc_ui/mmc.mk	
r--r--r--	204/210	4542	Nov 19 13:31 1997 ./mc/mc_ui/mmc_close.c	
r--r--r--	204/210	5463	Nov 19 13:31 1997 ./mc/mc_ui/mmc_icon_callback.c	
r--r--r--	204/210	3722	Nov 19 13:31 1997 ./mc/mc_ui/mmc_init_icon.c	
r--r--r--	204/210	10074	Nov 19 13:31 1997 ./mc/mc_ui/mmc_init_tabl.c	
r-xr-xr-x	204/210	6810	Nov 19 13:31 1997 ./mc/mc_ui/mmc_main.c	
r--r--r--	204/210	2670	Nov 19 13:31 1997 ./mc/mc_ui/mmc_mps.mk	
r--r--r--	204/210	4375	Nov 19 13:31 1997 ./mc/mc_ui/mmc_popup_error.c	
r-xr-xr-x	204/210	12398	Nov 19 13:31 1997 ./mc/build_mc	
r-xr-xr-x	204/210	1249	Nov 19 13:31 1997 ./mc/mmc_hrs_dct_start.csh	
r-xr-xr-x	204/210	1519	Nov 19 13:31 1997 ./mc/mmc_hrs_dct_stop.csh	
r-xr-xr-x	204/210	1258	Nov 19 13:31 1997 ./mc/mmc_hrs_dvt_start.csh	
r-xr-xr-x	204/210	1498	Nov 19 13:31 1997 ./mc/mmc_hrs_dvt_stop.csh	
r-xr-xr-x	204/210	1127	Nov 19 13:31 1997 ./mc/mmc_hrs_omd_startcsh	
r-xr-xr-x	204/210	1359	Nov 19 13:31 1997 ./mc/mmc_hrs_omd_stop.csh	
r-xr-xr-x	204/210	1724	Nov 19 13:31 1997 ./mc/mmc_hrs_sctgen_start.csh	
r-xr-xr-x	204/210	1702	Nov 19 13:31 1997 ./mc/mmc_hrs_sctgen_stop.csh	
r-xr-xr-x	204/210	1546	Nov 19 13:31 1997 ./mc/mmc_hrs_tpce_start.csh	
r-xr-xr-x	204/210	1845	Nov 19 13:31 1997 ./mc/mmc_hrs_tpce_stop.csh	
r-xr-xr-x	204/210	2215	Nov 19 13:31 1997 ./mc/mmc_kill_processes.ksh	
r--r--r--	204/210	1443	Nov 19 13:31 1997 ./mc/mmc_lrs_icon_file	
r-xr-xr-x	204/210	1137	Nov 19 13:31 1997 ./mc/mmc_lrs_omd_start.csh	
r-xr-xr-x	204/210	1358	Nov 19 13:31 1997 ./mc/mmc_lrs_omd_stop.csh	
r-xr-xr-x	204/210	3905	Nov 19 13:31 1997 ./mc/mmc_lrs_tpce_start.csh	
r-xr-xr-x	204/210	1883	Nov 19 13:31 1997 ./mc/mmc_lrs_tpce_stop.csh	
r-xr-xr-x	204/210	984	Nov 19 13:31 1997 ./mc/mmc_mps_exec_start.csh	
r-xr-xr-x	204/210	1327	Nov 19 13:31 1997 ./mc/mmc_mps_exec_stop.csh	
r--r--r--	204/210	1943	Nov 19 13:31 1997 ./mc/mmc_mps_icon_file	
r-xr-xr-x	204/210	1007	Nov 19 13:31 1997 ./mc/mmc_mps_omd_start.csh	
r-xr-xr-x	204/210	1367	Nov 19 13:31 1997 ./mc/mmc_mps_omd_stop.csh	
r-xr-xr-x	204/210	1121	Nov 19 13:31 1997 ./mc/mmc_mps_pdb_start.csh	
r-xr-xr-x	204/210	1325	Nov 19 13:31 1997 ./mc/mmc_mps_pdb_stop.csh	

r--r--r--	204/210	2964	Nov 19 13:31 1997 ./mc/mmc_sample_icon_file	
r-xr-xr-x	204/210	1941	Nov 19 13:31 1997 ./mc/mmc_start_stop_process.csh	
rwxr-xr-x	204/210	0	Nov 19 13:32 1997 ./omdsim/	CI 1.5
rwxr-xr-x	204/210	0	Nov 19 13:31 1997 ./omdsim/om_de/	
r--r--r--	204/210	6482	Nov 19 13:31 1997 ./omdsim/om_de/omdeleg.c	
r--r--r--	204/210	1845	Nov 19 13:31 1997 ./omdsim/om_de/om_deleg.mk	
r--r--r--	204/210	1559	Nov 19 13:31 1997 ./omdsim/om_de/om_deleg_vme.mk	
r--r--r--	204/210	19693	Nov 19 13:31 1997 ./omdsim/om_de/om_dlg_coda.c	
r--r--r--	204/210	14297	Nov 19 13:31 1997 ./omdsim/om_de/om_dlg_eds_pds.c	
r--r--r--	204/210	3858	Nov 19 13:31 1997 ./omdsim/om_de/om_dlg_hdr.c	
r--r--r--	204/210	17797	Nov 19 13:31 1997 ./omdsim/om_de/om_dlg_scs.c	
r--r--r--	204/210	7502	Nov 19 13:31 1997 ./omdsim/om_de/om_get_flg.c	
r--r--r--	204/210	2960	Nov 19 13:31 1997 ./omdsim/om_de/om_unpk_pb5.c	
r--r--r--	204/210	1280	Nov 19 13:31 1997 ./omdsim/om_de/om_unpk_vcid.c	
r-xr-xr-x	204/210	10439	Nov 19 13:31 1997 ./omdsim/build_omdsim	
rwxr-xr-x	204/210	0	Nov 19 13:31 1997 ./omdsim/om_lo/	
rwxr-xr-x	204/210	0	Nov 19 13:32 1997 ./omdsim/om_re/	
r--r--r--	204/210	1520	Nov 19 13:31 1997 ./omdsim/om_re/hear.mk	
r--r--r--	204/210	4938	Nov 19 13:31 1997 ./omdsim/om_re/om_create_ack.c	
r--r--r--	204/210	2578	Nov 19 13:31 1997 ./omdsim/om_re/om_create_epd\$hdr.c	
r--r--r--	204/210	3767	Nov 19 13:31 1997 ./omdsim/om_re/om_dir_lst_change.c	
r--r--r--	204/210	8330	Nov 19 13:31 1997 ./omdsim/om_re/om_dir_monitor.c	
r--r--r--	204/210	2866	Nov 19 13:31 1997 ./omdsim/om_re/om_netrc.c	
r--r--r--	204/210	2003	Nov 19 13:31 1997 ./omdsim/om_re/om_re.mk	
r--r--r--	204/210	5552	Nov 19 13:31 1997 ./omdsim/om_re/om_re_ack.c	
r--r--r--	204/210	1644	Nov 19 13:31 1997 ./omdsim/om_re/om_re_vme.mk	
r--r--r--	204/210	7285	Nov 19 13:31 1997 ./omdsim/om_re/om_rec_sub.c	
r--r--r--	204/210	1573	Nov 19 13:31 1997 ./omdsim/om_re/om_rec_sub.mk	
r--r--r--	204/210	903	Nov 19 13:31 1997 ./omdsim/om_re/om_rec_sub_vme.mk	
r--r--r--	204/210	5751	Nov 19 13:32 1997 ./omdsim/om_re/om_receiver.c	
r--r--r--	204/210	5260	Nov 19 13:32 1997 ./omdsim/om_re/om_receiver_stub.c	
r--r--r--	204/210	2645	Nov 19 13:32 1997 ./omdsim/om_re/xmitter.c	
r--r--r--	204/210	1383	Nov 19 13:32 1997 ./omdsim/om_re/xmitter.mk	
r--r--r--	204/210	2953	Nov 19 13:32 1997 ./omdsim/om_re/xmitter_sub.c	
rwxr-xr-x	204/210	0	Nov 19 13:32 1997 ./omdsim/om_sc/	
r--r--r--	204/210	2125	Nov 19 13:32 1997 ./omdsim/om_sc/delog.c	
r--r--r--	204/210	1127	Nov 19 13:32 1997 ./omdsim/om_sc/delog.mk	
r--r--r--	204/210	15597	Nov 19 13:32 1997 ./omdsim/om_sc/dlg_coda.c	
r--r--r--	204/210	1936	Nov 19 13:32 1997 ./omdsim/om_sc/dlg_hdr.c	
r--r--r--	204/210	5645	Nov 19 13:32 1997 ./omdsim/om_sc/get_flg.c	
r--r--r--	204/210	2211	Nov 19 13:32 1997 ./omdsim/om_sc/om_sc.mk	
r--r--r--	204/210	7246	Nov 19 13:32 1997 ./omdsim/om_sc/om_sc_exec.c	
r--r--r--	204/210	436	Nov 19 13:32 1997 ./omdsim/om_sc/om_sc_init.c	
r--r--r--	204/210	1908	Nov 19 13:32 1997 ./omdsim/om_sc/om_sc_vme.mk	
r--r--r--	204/210	2348	Nov 19 13:32 1997 ./omdsim/om_sc/om_scheduler.c	
r--r--r--	204/210	7237	Nov 19 13:32 1997 ./omdsim/om_sc/om_scheduler_stub.c	
r--r--r--	204/210	10219	Nov 19 13:32 1997 ./omdsim/om_sc/om_scheduler_sub.c	
rwxr-xr-x	204/210	0	Nov 19 13:32 1997 ./omdsim/om_sm/	
r--r--r--	204/210	10539	Nov 19 13:32 1997 ./omdsim/om_sm/om_scenario_manager.c	
r--r--r--	204/210	4516	Nov 19 13:32 1997 ./omdsim/om_sm/om_scenario_manager_stub.c	
r--r--r--	204/210	4613	Nov 19 13:32 1997 ./omdsim/om_sm/om_scenario_sub.c	
r--r--r--	204/210	2237	Nov 19 13:32 1997 ./omdsim/om_sm/om_sm.mk	
r--r--r--	204/210	4123	Nov 19 13:32 1997 ./omdsim/om_sm/om_sm_initialize.c	

r--r--r--	204/210	1007	Nov 19 13:32 1997 ./omdsim/om_sm/om_sm_trans.c
r--r--r--	204/210	1938	Nov 19 13:32 1997 ./omdsim/om_sm/om_sm_vme.mk
rwxr-xr-x	204/210	0	Nov 19 13:32 1997 ./omdsim/om_tr/
r--r--r--	204/210	2660	Nov 19 13:32 1997 ./omdsim/om_tr/om_agg_lntc
r--r--r--	204/210	8522	Nov 19 13:32 1997 ./omdsim/om_tr/om_apid_table.c
r--r--r--	204/210	5273	Nov 19 13:32 1997 ./omdsim/om_tr/om_cnvt_byte.c
r--r--r--	204/210	7590	Nov 19 13:32 1997 ./omdsim/om_tr/om_cnvt_coda.c
r--r--r--	204/210	8681	Nov 19 13:32 1997 ./omdsim/om_tr/om_cnvt_coda2.c
r--r--r--	204/210	7199	Nov 19 13:32 1997 ./omdsim/om_tr/om_cnvt_epds.c
r--r--r--	204/210	2655	Nov 19 13:32 1997 ./omdsim/om_tr/om_cnvt_flsb.c
r--r--r--	204/210	2627	Nov 19 13:32 1997 ./omdsim/om_tr/om_cnvt_hdr.c
r--r--r--	204/210	3336	Nov 19 13:32 1997 ./omdsim/om_tr/om_cnvt_pb5.c
r--r--r--	204/210	4704	Nov 19 13:32 1997 ./omdsim/om_tr/om_cnvt_rlsb.c
r--r--r--	204/210	6953	Nov 19 13:32 1997 ./omdsim/om_tr/om_cnvt_scs.c
r--r--r--	204/210	3714	Nov 19 13:32 1997 ./omdsim/om_tr/om_cnvt_tss.c
r--r--r--	204/210	3136	Nov 19 13:32 1997 ./omdsim/om_tr/om_cnvt_vcdu.c
r--r--r--	204/210	2050	Nov 19 13:32 1997 ./omdsim/om_tr/om_get_epds_name.c
r--r--r--	204/210	11813	Nov 19 13:32 1997 ./omdsim/om_tr/om_get_external.c
r--r--r--	204/210	776	Nov 19 13:32 1997 ./omdsim/om_tr/om_get_signal.c
r--r--r--	204/210	3734	Nov 19 13:32 1997 ./omdsim/om_tr/om_gmt.c
r--r--r--	204/210	6264	Nov 19 13:32 1997 ./omdsim/om_tr/om_hrs_epds_values.c
r--r--r--	204/210	8844	Nov 19 13:32 1997 ./omdsim/om_tr/om_hrs_trans.c
r--r--r--	204/210	2451	Nov 19 13:32 1997 ./omdsim/om_tr/om_load_omd.c
r--r--r--	204/210	17806	Nov 19 13:32 1997 ./omdsim/om_tr/om_lrs_coda_values.c
r--r--r--	204/210	12988	Nov 19 13:32 1997 ./omdsim/om_tr/om_merge_epds.c
r--r--r--	204/210	3290	Nov 19 13:32 1997 ./omdsim/om_tr/om_merge_scs_ccsds.c
r--r--r--	204/210	1605	Nov 19 13:32 1997 ./omdsim/om_tr/om_merge_scs_comm.c
r--r--r--	204/210	3920	Nov 19 13:32 1997 ./omdsim/om_tr/om_merge_scs_flsb.c
r--r--r--	204/210	2102	Nov 19 13:32 1997 ./omdsim/om_tr/om_merge_scs_hdr.c
r--r--r--	204/210	4752	Nov 19 13:32 1997 ./omdsim/om_tr/om_merge_scs_rlsb_gtpp.c
r--r--r--	204/210	4326	Nov 19 13:32 1997 ./omdsim/om_tr/om_merge_scs_rlsb_vcid.c
r--r--r--	204/210	2952	Nov 19 13:32 1997 ./omdsim/om_tr/om_mps_send_ftp.c
r--r--r--	204/210	11729	Nov 19 13:32 1997 ./omdsim/om_tr/om_mps_trans.c
r--r--r--	204/210	1466	Nov 19 13:32 1997 ./omdsim/om_tr/om_open_tcp_client.c
r--r--r--	204/210	9046	Nov 19 13:32 1997 ./omdsim/om_tr/om_save_coda.c
r--r--r--	204/210	3194	Nov 19 13:32 1997 ./omdsim/om_tr/om_send_ext.c
r--r--r--	204/210	3050	Nov 19 13:32 1997 ./omdsim/om_tr/om_send_ftp.c
r--r--r--	204/210	4689	Nov 19 13:32 1997 ./omdsim/om_tr/om_tr.mk
r--r--r--	204/210	6063	Nov 19 13:32 1997 ./omdsim/om_tr/om_tr_HRS.mk
r--r--r--	204/210	2146	Nov 19 13:32 1997 ./omdsim/om_tr/om_tr_init.c
r--r--r--	204/210	4832	Nov 19 13:32 1997 ./omdsim/om_tr/om_tr_vme.mk
r--r--r--	204/210	21982	Nov 19 13:32 1997 ./omdsim/om_tr/om_trans_sub.c
r--r--r--	204/210	3885	Nov 19 13:32 1997 ./omdsim/om_tr/om_transmission_task.c
r--r--r--	204/210	6251	Nov 19 13:32 1997 ./omdsim/om_tr/om_transmission_task_stub.c
r--r--r--	204/210	8388	Nov 19 13:32 1997 ./omdsim/om_tr/om_tt_merge.c
r--r--r--	204/210	3967	Nov 19 13:32 1997 ./omdsim/om_tr/om_tt_merge_scs.c
r--r--r--	204/210	3268	Nov 19 13:32 1997 ./omdsim/om_tr/om_unpk_pb5.c
r--r--r--	204/210	2379	Nov 19 13:32 1997 ./omdsim/om_tr/om_update_comm_counters.c
r--r--r--	204/210	4232	Nov 19 13:32 1997 ./omdsim/om_tr/om_update_counter.c
r--r--r--	204/210	4231	Nov 19 13:32 1997 ./omdsim/om_tr/om_update_counters.c
r--r--r--	204/210	4423	Nov 19 13:32 1997 ./omdsim/om_tr/om_update_flsb_counters.c
r--r--r--	204/210	2562	Nov 19 13:32 1997 ./omdsim/om_tr/om_update_path_counters.c

r--r--r--	204/210	11365	Nov 19 13:32 1997 ./omdsim/om_tr/om_update_rlsb_counters.c
r--r--r--	204/210	2595	Nov 19 13:32 1997 ./omdsim/om_tr/om_update_vcdv_counters.c
r--r--r--	204/210	769	Nov 19 13:32 1997 ./omdsim/om_tr/om_write_for_ftp.c
rwxr-xr-x	204/210	0	Nov 19 13:32 1997 ./omdsim/om_ui/
r--r--r--	204/210	97797	Nov 19 13:32 1997 ./omdsim/om_ui/bxutils.c
r--r--r--	204/210	5032	Nov 19 13:32 1997 ./omdsim/om_ui/om_ui.mk
r--r--r--	204/210	4837	Nov 19 13:32 1997 ./omdsim/om_ui/om_ui_vme.mk
r--r--r--	204/210	21987	Nov 19 13:32 1997 ./omdsim/om_ui/omdsim.help
r--r--r--	204/210	3553	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_ccsds_vcid_number.c
r--r--r--	204/210	4921	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_client_socket.c
r--r--r--	204/210	2032	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_coda_contents.c
r--r--r--	204/210	5164	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_comm_link.c
r--r--r--	204/210	2165	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_exit.c
r--r--r--	204/210	7677	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_load_omd.c
r--r--r--	204/210	6158	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_loh_scn.c
r--r--r--	204/210	4183	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_log_omd_rcvd.c
r--r--r--	204/210	3929	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_log_omd_xmted.c
r--r--r--	204/210	3043	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_mps_socket.c
r--r--r--	204/210	6481	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_msg_received.c
r--r--r--	204/210	9226	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_new_omd.c
r--r--r--	204/210	3051	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_number_ccsds_vcids.c
r--r--r--	204/210	3417	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_number_flpps.c
r--r--r--	204/210	3606	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_number_rlpp_vcids.c
r--r--r--	204/210	2952	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_number_rlpps.c
r--r--r--	204/210	5710	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_oe_changed_funcs.c
r--r--r--	204/210	3943	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_oe_exit.c
r--r--r--	204/210	3661	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_oe_gmh_funcs.c
r--r--r--	204/210	7510	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_oe_save_funcs.c
r--r--r--	204/210	7437	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_open_omd_funcs.c
r--r--r--	204/210	5959	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_open_scn_funcs.c
r--r--r--	204/210	4477	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_other_ccsds_vcid.c
r--r--r--	204/210	4360	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_other_rlpp.c
r--r--r--	204/210	4994	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_other_rlpp_vcid.c
r--r--r--	204/210	3398	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_pds_edt_changed_funcs.c
r--r--r--	204/210	4902	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_pds_edt_number_funcs.c
r--r--r--	204/210	7988	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_pds_edt_other_funcs.c
r--r--r--	204/210	5831	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_pds_edt_set_funcs.c
r--r--r--	204/210	3661	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_rlpp_number.c
r--r--r--	204/210	32909	Nov 19 13:32 1997 ./omdsim/om_ui/oui.ul
r--r--r--	204/210	4498	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_rlpp_vcid_number.c
r--r--r--	204/210	5329	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_scenario.c
r--r--r--	204/210	3632	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_set_ccsds_vcid_funcs.c
r--r--r--	204/210	3491	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_set_rlpp_funcs.c
r--r--r--	204/210	4438	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_set_rlpp_vcid_funcs.c
r--r--r--	204/210	5961	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_transmission.c
r--r--r--	204/210	3498	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_unload_omd.c
r--r--r--	204/210	3444	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_unload_scn.c
r--r--r--	204/210	6157	Nov 19 13:32 1997 ./omdsim/om_ui/ouc_view_omd_log_funcs.c
r--r--r--	204/210	5927	Nov 19 13:32 1997 ./omdsim/om_ui/ouf_close_comm.c
r--r--r--	204/210	4861	Nov 19 13:32 1997 ./omdsim/om_ui/ouf_display_ccsds_vcid.c
r--r--r--	204/210	19698	Nov 19 13:32 1997 ./omdsim/om_ui/ouf_display_coda.c
r--r--r--	204/210	3397	Nov 19 13:32 1997 ./omdsim/om_ui/ouf_display_flpp.c

r--r--r--	204/210	4835	Nov 19 13:32 1997 ./omdsim/om_ui/ouf_display_gnd_msg_hdr.c
r--r--r--	204/210	2669	Nov 19 13:32 1997 ./omdsim/om_ui/ouf_display_omd.c
r--r--r--	204/210	3223	Nov 19 13:32 1997 ./omdsim/om_ui/ouf_display_omd_log.c
r--r--r--	204/210	16566	Nov 19 13:32 1997 ./omdsim/om_ui/ouf_display_pds_eds.c
r--r--r--	204/210	9097	Nov 19 13:32 1997 ./omdsim/om_ui/ouf_display_rlpp.c
r--r--r--	204/210	4872	Nov 19 13:32 1997 ./omdsim/om_ui/ouf_display_rlpp_vcid.c
r--r--r--	204/210	2130	Nov 19 13:32 1997 ./omdsim/om_ui/ouf_exit.c
r--r--r--	204/210	22365	Nov 19 13:32 1997 ./omdsim/om_ui/ouf_get_coda_funcs.c
r--r--r--	204/210	4836	Nov 19 13:32 1997 ./omdsim/om_ui/ouf_get_counter.c
r--r--r--	204/210	3821	Nov 19 13:32 1997 ./omdsim/om_ui/ouf_get_gnd_msg_hdr.c
r--r--r--	204/210	2090	Nov 19 13:32 1997 ./omdsim/om_ui/ouf_get_omd_values.c
r--r--r--	204/210	15475	Nov 19 13:32 1997 ./omdsim/om_ui/ouf_get_pds_eds.c
r--r--r--	204/210	2115	Nov 19 13:32 1997 ./omdsim/om_ui/ouf_initialize_params.c
r--r--r--	204/210	7285	Nov 19 13:32 1997 ./omdsim/om_ui/ouf_open_comm.c
r--r--r--	204/210	2315	Nov 19 13:32 1997 ./omdsim/om_ui/ouf_read_omd.c
r--r--r--	204/210	4091	Nov 19 13:32 1997 ./omdsim/om_ui/ouf_reset_activity.c
r--r--r--	204/210	4104	Nov 19 13:32 1997 ./omdsim/om_ui/ouf_reset_comm_link.c
r--r--r--	204/210	4089	Nov 19 13:32 1997 ./omdsim/om_ui/ouf_set_counter.c
r--r--r--	204/210	2124	Nov 19 13:32 1997 ./omdsim/om_ui/ouf_stop_transmission.c
r--r--r--	204/210	2156	Nov 19 13:32 1997 ./omdsim/om_ui/ouf_terminate_scenario.c
r--r--r--	204/210	70279	Nov 19 13:32 1997 ./omdsim/om_ui/oui_coda.uil
r--r--r--	204/210	77877	Nov 19 13:32 1997 ./omdsim/om_ui/oui_coda_creation.c
r--r--r--	204/210	42669	Nov 19 13:32 1997 ./omdsim/om_ui/oui_creation.c
r--r--r--	204/210	8460	Nov 19 13:32 1997 ./omdsim/om_ui/oui_main.c
r--r--r--	204/210	17400	Nov 19 13:32 1997 ./omdsim/om_ui/oui_omd_ed.uil
r--r--r--	204/210	20430	Nov 19 13:32 1997 ./omdsim/om_ui/oui_omd_ed_creation.c
r--r--r--	204/210	42411	Nov 19 13:32 1997 ./omdsim/om_ui/oui_pds_eds.uil
r--r--r--	204/210	55923	Nov 19 13:32 1997 ./omdsim/om_ui/oui_pds_eds_creation.c
r--r--r--	204/210	19872	Nov 19 13:32 1997 ./omdsim/om_ui/oup_create_omd_ed.c
rwxr-xr-x	204/210	0	Nov 19 13:32 1997 ./mps/ CI 1.3
rwxr-xr-x	204/210	0	Nov 19 13:32 1997 ./mps/mp_ui/
r--r--r--	204/210	97797	Nov 19 13:32 1997 ./mps/mp_ui/bxutils.c
r--r--r--	204/210	6969	Nov 19 13:32 1997 ./mps/mp_ui/mp_ui.mk
r--r--r--	204/210	6487	Nov 19 13:32 1997 ./mps/mp_ui/mp_ui_vme.mk
r--r--r--	204/210	19453	Nov 19 13:32 1997 ./mps/mp_ui/mps.help
r--r--r--	204/210	7478	Nov 19 13:32 1997 ./mps/mp_ui/muc_activity_log_funcs.c
r--r--r--	204/210	2166	Nov 19 13:32 1997 ./mps/mp_ui/muc_cfg_cmd.c
r--r--r--	204/210	5728	Nov 19 13:32 1997 ./mps/mp_ui/muc_cfg_cmd_edos_funcs.c
r--r--r--	204/210	16114	Nov 19 13:32 1997 ./mps/mp_ui/muc_cfg_cmd_sc_funcs.c
r--r--r--	204/210	10902	Nov 19 13:32 1997 ./mps/mp_ui/muc_cfg_cmd_val_funcs.c
r--r--r--	204/210	5969	Nov 19 13:32 1997 ./mps/mp_ui/muc_cfg_modeling.c
r--r--r--	204/210	12529	Nov 19 13:32 1997 ./mps/mp_ui/muc_cfg_pkt_fmt_funcs.c
r--r--r--	204/210	2170	Nov 19 13:32 1997 ./mps/mp_ui/muc_cfg_tlm.c
r--r--r--	204/210	9436	Nov 19 13:32 1997 ./mps/mp_ui/muc_cfg_tlm_edos_funcs.c
r--r--r--	204/210	12696	Nov 19 13:32 1997 ./mps/mp_ui/muc_cfg_tlpkt_funcs.c
r--r--r--	204/210	22185	Nov 19 13:32 1997 ./mps/mp_ui/muc_cfg_tlm_sc_funcs.c
r--r--r--	204/210	9947	Nov 19 13:32 1997 ./mps/mp_ui/muc_clcw_ctl_funcs.c
r--r--r--	204/210	10659	Nov 19 13:32 1997 ./mps/mp_ui/muc_create_rb_files.c
r--r--r--	204/210	9883	Nov 19 13:32 1997 ./mps/mp_ui/muc_data_source_funcs.c
r--r--r--	204/210	9172	Nov 19 13:32 1997 ./mps/mp_ui/muc_drop_tlm_funcs.c
r--r--r--	204/210	5816	Nov 19 13:32 1997 ./mps/mp_ui/muc_exit.c
r--r--r--	204/210	10382	Nov 19 13:32 1997 ./mps/mp_ui/muchsio_cfg_funcs.c
r--r--r--	204/210	1983	Nov 19 13:32 1997 ./mps/mp_ui/muc_log_cmd.c
r--r--r--	204/210	10521	Nov 19 13:32 1997 ./mps/mp_ui/muc_log_tlm.c

r--r--r--	204/210	3616	Nov 19 13:32 1997 ./mps/mp_ui/muc_model_act_funcs.c
r--r--r--	204/210	9391	Nov 19 13:32 1997 ./mps/mp_ui/muc_model_cfg_funcs.c
r--r--r--	204/210	2499	Nov 19 13:32 1997 ./mps/mp_ui/muc_model_close.c
r--r--r--	204/210	9454	Nov 19 13:32 1997 ./mps/mp_ui/muc_model_list_funcs.c
r--r--r--	204/210	4687	Nov 19 13:32 1997 ./mps/mp_ui/muc_mon_clw_funcs.c
r--r--r--	204/210	9430	Nov 19 13:32 1997 ./mps/mp_ui/muc_mon_cmd_status_funcs.c
r--r--r--	204/210	5146	Nov 19 13:32 1997 ./mps/mp_ui/muc_mon_command_funcs.c
r--r--r--	204/210	12247	Nov 19 13:32 1997 ./mps/mp_ui/muc_mon_edu_funcs.c
r--r--r--	204/210	9889	Nov 19 13:32 1997 ./mps/mp_ui/muc_mon_ntwk_status_funcs.c
r--r--r--	204/210	12127	Nov 19 13:32 1997 ./mps/mp_ui/muc_mon_packet_funcs.c
r--r--r--	204/210	12033	Nov 19 13:32 1997 ./mps/mp_ui/muc_mon_parameter_funcs.c
r--r--r--	204/210	9282	Nov 19 13:32 1997 ./mps/mp_ui/muc_mon_tlm_status_funcs.c
r--r--r--	204/210	12165	Nov 19 13:32 1997 ./mps/mp_ui/muc_mon_vcdt_funcs.c
r--r--r--	204/210	5725	Nov 19 13:32 1997 ./mps/mp_ui/muc_omd_socket.c
r--r--r--	204/210	4988	Nov 19 13:32 1997 ./mps/mp_ui/muc_print_funcs.c
r--r--r--	204/210	10231	Nov 19 13:32 1997 ./mps/mp_ui/muc_proc_config_funcs.c
r--r--r--	204/210	7792	Nov 19 13:32 1997 ./mps/mp_ui/muc_sc_buffer_funcs.c
r--r--r--	204/210	3488	Nov 19 13:32 1997 ./mps/mp_ui/muc_scenario.c
r--r--r--	204/210	2527	Nov 19 13:32 1997 ./mps/mp_ui/muc_scenario_close_CB.c
r--r--r--	204/210	1955	Nov 19 13:32 1997 ./mps/mp_ui/muc_scenario_close_no_CB.c
r--r--r--	204/210	2044	Nov 19 13:32 1997 ./mps/mp_ui/muc_scenario_close_ok_CB.c
r--r--r--	204/210	2417	Nov 19 13:32 1997 ./mps/mp_ui/muc_scenario_create_CB.c
r--r--r--	204/210	3542	Nov 19 13:32 1997 ./mps/mp_ui/muc_scenario_ok_CB.c
r--r--r--	204/210	3017	Nov 19 13:32 1997 ./mps/mp_ui/muc_scenario_parse.c
r--r--r--	204/210	11399	Nov 19 13:32 1997 ./mps/mp_ui/muc_scenario_start_CB.
r--r--r--	204/210	3563	Nov 19 13:32 1997 ./mps/mp_ui/muc_scenario_stop_CB.c
r--r--r--	204/210	3200	Nov 19 13:32 1997 ./mps/mp_ui/muc_scenario_update_elapsed_time_CB.c
r--r--r--	204/210	3690	Nov 19 13:32 1997 ./mps/mp_ui/muc_set_ntwk_mode.c
r--r--r--	204/210	20672	Nov 19 13:32 1997 ./mps/mp_ui/muc_set_time.c
r--r--r--	204/210	3523	Nov 19 13:32 1997 ./mps/mp_ui/muc_sim_mode.c
r--r--r--	204/210	19956	Nov 19 13:32 1997 ./mps/mp_ui/muc_socket.c
r--r--r--	204/210	11348	Nov 19 13:32 1997 ./mps/mp_ui/muc_stat_tlm.c
r--r--r--	204/210	11706	Nov 19 13:32 1997 ./mps/mp_ui/muc_stop_tlm.c
r--r--r--	204/210	3317	Nov 19 13:32 1997 ./mps/mp_ui/muc_user_cmd.c
r--r--r--	204/210	6211	Nov 19 13:32 1997 ./mps/mp_ui/muc_view_funcs.c
r--r--r--	204/210	1713	Nov 19 13:32 1997 ./mps/mp_ui/muc_xmit_clcw.c
r--r--r--	204/210	2842	Nov 19 13:32 1997 ./mps/mp_ui/muf_create_monitor_box.c
r--r--r--	204/210	4875	Nov 19 13:32 1997 ./mps/mp_ui/muf_display_data.c
r--r--r--	204/210	6277	Nov 19 13:32 1997 ./mps/mp_ui/muf_init_display.c
r--r--r--	204/210	6093	Nov 19 13:32 1997 ./mps/mp_ui/muf_init_proc.c
r--r--r--	204/210	3201	Nov 19 13:32 1997 ./mps/mp_ui/muf_open_socket.c
r--r--r--	204/210	8186	Nov 19 13:32 1997 ./mps/mp_ui/muf_queue_funcs.c
r--r--r--	204/210	14755	Nov 19 13:32 1997 ./mps/mp_ui/muf_read_params.c
r--r--r--	204/210	6605	Nov 19 13:32 1997 ./mps/mp_ui/muf_send_msg.c
r--r--r--	204/210	6721	Nov 19 13:32 1997 ./mps/mp_ui/muf_set_action.c
r--r--r--	204/210	26669	Nov 19 13:32 1997 ./mps/mp_ui/muf_show_msg_funcs.c
r--r--r--	204/210	11082	Nov 19 13:32 1997 ./mps/mp_ui/muf_write_params.c
r--r--r--	204/210	14461	Nov 19 13:32 1997 ./mps/mp_ui/mui_clcw_ctl.uil
r--r--r--	204/210	17102	Nov 19 13:32 1997 ./mps/mp_ui/mui_clcw_ctl_creation.c
r--r--r--	204/210	28024	Nov 19 13:32 1997 ./mps/mp_ui/mui_cmd_cfg.uil
r--r--r--	204/210	39072	Nov 19 13:32 1997 ./mps/mp_ui/mui_cmd_cfg_creation.c
r--r--r--	204/210	21896	Nov 19 13:32 1997 ./mps/mp_ui/mui_cmd_status.uil
r--r--r--	204/210	28675	Nov 19 13:32 1997 ./mps/mp_ui/mui_cmd_status_creation.c

r--r--r--	204/210	11043	Nov 19 13:32 1997 ./mps/mp_ui/mui_cmd_valid.uil
r--r--r--	204/210	11384	Nov 19 13:32 1997 ./mps/mp_ui/mui_cmd_valid_creation.c
r--r--r--	204/210	11014	Nov 19 13:32 1997 ./mps/mp_ui/mui_drop_tlm.uil
r--r--r--	204/210	10131	Nov 19 13:32 1997 ./mps/mp_ui/mui_drop_tlm_creation.c
r--r--r--	204/210	22241	Nov 19 13:32 1997 ./mps/mp_ui/mui_hsio_cfg.uil
r--r--r--	204/210	29138	Nov 19 13:32 1997 ./mps/mp_ui/mui_hsio_cfg_creation.c
r--r--r--	204/210	3008	Nov 19 13:32 1997 ./mps/mp_ui/mui_init.params
r--r--r--	204/210	8769	Nov 19 13:32 1997 ./mps/mp_ui/mui_main.c
r--r--r--	204/210	47705	Nov 19 13:32 1997 ./mps/mp_ui/mui_main.uil
r--r--r--	204/210	67245	Nov 19 13:32 1997 ./mps/mp_ui/mui_main_creation.c
r--r--r--	204/210	19838	Nov 19 13:32 1997 ./mps/mp_ui/mui_model.uil
r--r--r--	204/210	25893	Nov 19 13:32 1997 ./mps/mp_ui/mui_model_creation.c
r--r--r--	204/210	10887	Nov 19 13:32 1997 ./mps/mp_ui/mui_mon_edu.uil
r--r--r--	204/210	10036	Nov 19 13:32 1997 ./mps/mp_ui/mui_mon_edu_creation.c
r--r--r--	204/210	10094	Nov 19 13:32 1997 ./mps/mp_ui/mui_mon_parm.uil
r--r--r--	204/210	10054	Nov 19 13:32 1997 ./mps/mp_ui/mui_mon_parm_creation.c
r--r--r--	204/210	10974	Nov 19 13:32 1997 ./mps/mp_ui/mui_mon_pkt.uil
r--r--r--	204/210	10174	Nov 19 13:32 1997 ./mps/mp_ui/mui_mon_pkt_creation.c
r--r--r--	204/210	10927	Nov 19 13:32 1997 ./mps/mp_ui/mui_mon_vcd.uil
r--r--r--	204/210	10124	Nov 19 13:32 1997 ./mps/mp_ui/mui_mon_vcd_creation.c
r--r--r--	204/210	9323	Nov 19 13:32 1997 ./mps/mp_ui/mui_monitor.uil
r--r--r--	204/210	8412	Nov 19 13:32 1997 ./mps/mp_ui/mui_monitor_creation.c
r--r--r--	204/210	32645	Nov 19 13:32 1997 ./mps/mp_ui/mui_ntwk_status.uil
r--r--r--	204/210	33793	Nov 19 13:32 1997 ./mps/mp_ui/mui_ntwk_status_creation.c
r--r--r--	204/210	22053	Nov 19 13:32 1997 ./mps/mp_ui/mui_pkt_fmt_cfg.uil
r--r--r--	204/210	29125	Nov 19 13:32 1997 ./mps/mp_ui/mui_pkt_fmt_cfg_creation.c
r--r--r--	204/210	12308	Nov 19 13:32 1997 ./mps/mp_ui/mui_sc_buffer.uil
r--r--r--	204/210	13910	Nov 19 13:32 1997 ./mps/mp_ui/mui_sc_buffer_creation.c
r--r--r--	204/210	16356	Nov 19 13:32 1997 ./mps/mp_ui/mui_scenario.uil
r--r--r--	204/210	18056	Nov 19 13:32 1997 ./mps/mp_ui/mui_scenario_creation.c
r--r--r--	204/210	19605	Nov 19 13:32 1997 ./mps/mp_ui/mui_set_time.uil
r--r--r--	204/210	19529	Nov 19 13:32 1997 ./mps/mp_ui/mui_set_time_creation.c
r--r--r--	204/210	53060	Nov 19 13:32 1997 ./mps/mp_ui/mui_tlm_cfg.uil
r--r--r--	204/210	65414	Nov 19 13:32 1997 ./mps/mp_ui/mui_tlm_cfg_creation.c
r--r--r--	204/210	17773	Nov 19 13:32 1997 ./mps/mp_ui/mui_tlmpkt.uil
r--r--r--	204/210	22686	Nov 19 13:32 1997 ./mps/mp_ui/mui_tlm_pkt_creation.c
r--r--r--	204/210	13000	Nov 19 13:32 1997 ./mps/mp_ui/mui_tlm_status.uil
r--r--r--	204/210	14021	Nov 19 13:32 1997 ./mps/mp_ui/mui_tlm_status_creation.c
r--r--r--	204/210	273	Nov 19 13:32 1997 ./mps/mp_ui/solar.scn
r-xr-xr-x	204/210	3340	Nov 19 13:32 1997 ./mps/build_mps
r--r--r--	204/210	2477	Nov 19 13:32 1997 ./mps/mps.app_defaults
rwxr-xr-x	204/210	0	Nov 19 13:32 1997 ./mps/mp_client/
r--r--r--	204/210	13268	Nov 19 13:32 1997 ./mps/mp_client/mps_client.c
r--r--r--	204/210	1039	Nov 19 13:32 1997 ./mps/mp_client/mps_client.mk
r--r--r--	204/210	786	Nov 19 13:32 1997 ./mps/mp_client/mps_client_vme.mk

Attachment K - ETS Documentation References

The following change information is applicable to documentation references used by MPS Release 1.4.0.

<u>Document</u>	<u>Location</u>
--, User's Guide for ETS Multimode Portable Simulator, Release 1.4.0 December 1997	6

Location Legend:

<u>No.</u>	<u>Designation</u>
6	http://esdis.gsfc.nasa.gov/ets/etsdoc.html

AttachmentL - Mission Systems Configuration Management Form

This attachment contains the completed Mission Systems Configuration Management (MSCM) form for the delivery of the MPS Release 1.4.0.

Mission Systems Configuration Management Form

<u>1. ORIGINATOR</u> Estelle Noone	<u>2. ORGANIZATION</u> CSC	<u>3. PHONE</u> (301)794-1305	<u>4. E-MAIL ADDRESS</u> enoone@cscmail.csc.com
<u>5. ELEMENT</u> ETS (HRS, LRS, MPS)		<u>6. INSTALLATION PRIORITY</u> Routine	<u>7. TRACKING NUMBER</u> (Assigned by CM Office)
<u>8. SOURCE CHANGE REQUEST(S):</u> ETS DRB approved MPS release for SMO DR closure and Change Request (CR) implementation.		<u>9. APPROVALS</u> Element Manager _____ / / Flight Ops Director _____ / / Operations Manager _____ / /	
<u>10. DELIVERED SYSTEM</u> (Check all that apply)			
	Name	Version	Media Identification
<input type="checkbox"/> Hardware	_____	_____	_____
<input checked="" type="checkbox"/> Software	MPS	R1.4.0	4 mm DAT & seven 3.5" Diskettes
<input type="checkbox"/> Database	_____	_____	_____
<input checked="" type="checkbox"/> Documentation:	_____	_____	_____
MPS Delivery Package	n/a	3.5" Diskette	12/19/97
MPS User's Guide	Release 1.4.0	Document	December 1997
_____	_____	_____	_____
<input type="checkbox"/> Other	_____	_____	_____
<u>11. CHANGE DESCRIPTION</u>			
MPS Release 1.4.0 closes the list of SMO DRs and CRs identified in the attached delivery package. _____ _____			
<u>12. ATTACHMENT(S):</u> Check if YES <input checked="" type="checkbox"/>			
Description: MPS Release 1.4.0 delivery package (cover letter with attachments) dated 12/19/97 _____			
<u>13. CM OFFICE USE</u>			
	Location (Bldg/Room)	Slot location(s)	
Hardware	/	_____	
Media	/	_____	
Documentation	/	_____	
Installation date	/ /	CM Office Signature _____	

Form MSCM (970327)